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1984

ANNUAL PLANNING INFORMATION
FISCAL YEAR 1984

CONNECTICUT

STATE OF CONNECTICUT
WILLIAM A. O'NEILL
Governor

Prepared in the Public Interest by:
THE CONNECTICUT LABOR DEPARTMENT
EMPLOYMENT SECURITY DIVISION

P. JOSEPH PERARO
Commissioner

ANNUAL PLANNING INFORMATION

for

CONNECTICUT

FISCAL YEAR 1984

OFFICE OF RESEARCH AND INFORMATION
EMPLOYMENT SECURITY DIVISION
CONNECTICUT LABOR DEPARTMENT
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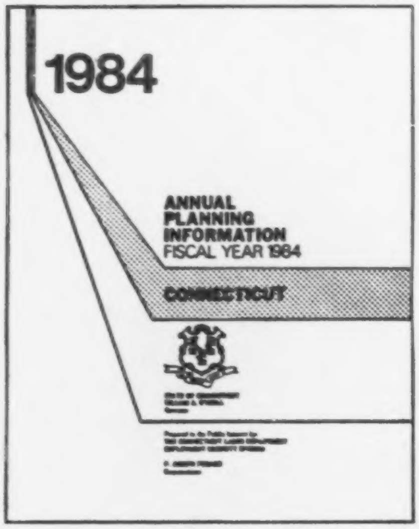
WETHERSFIELD, CT 06109

AUGUST, 1983



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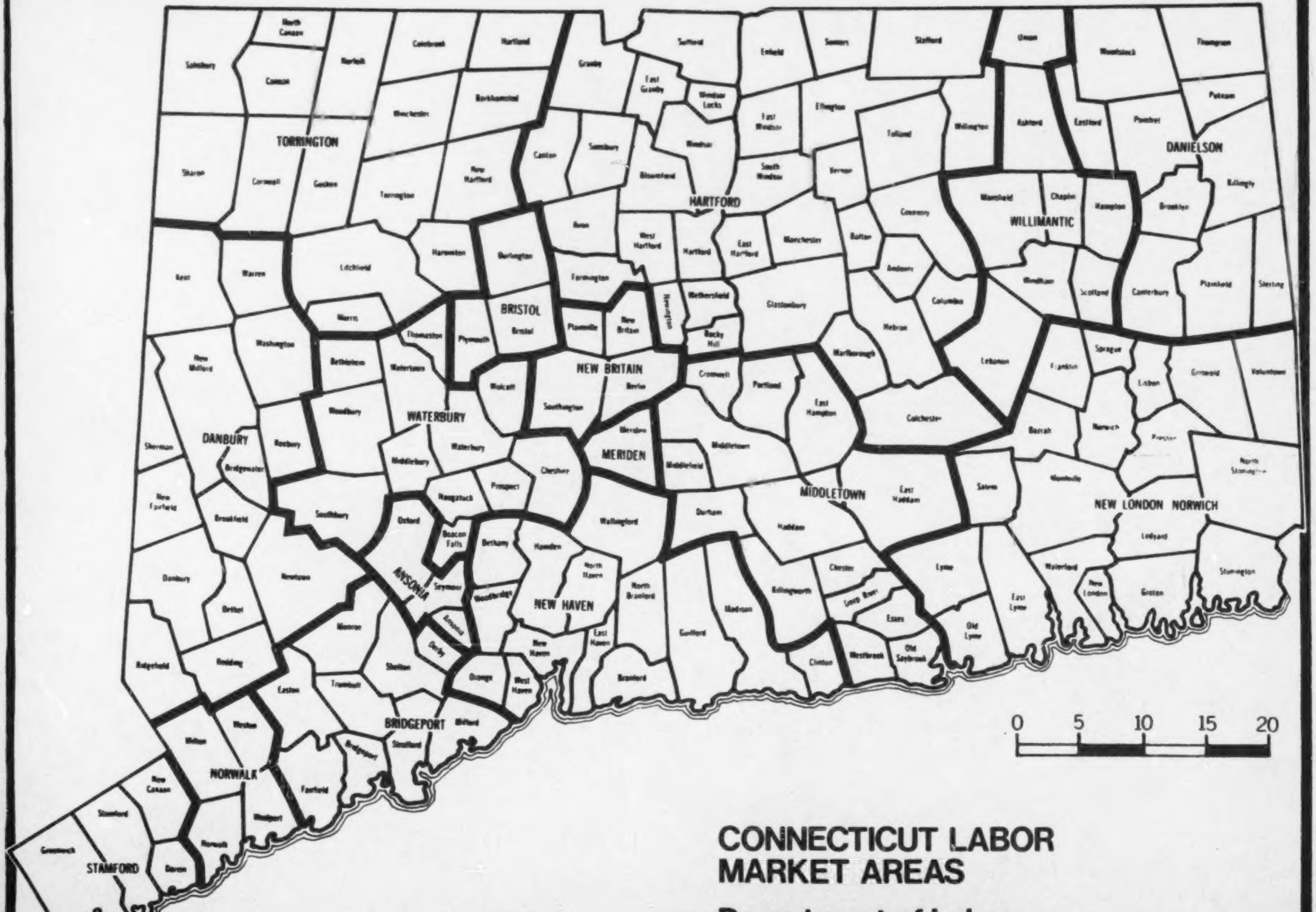
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BRIDGEPORT
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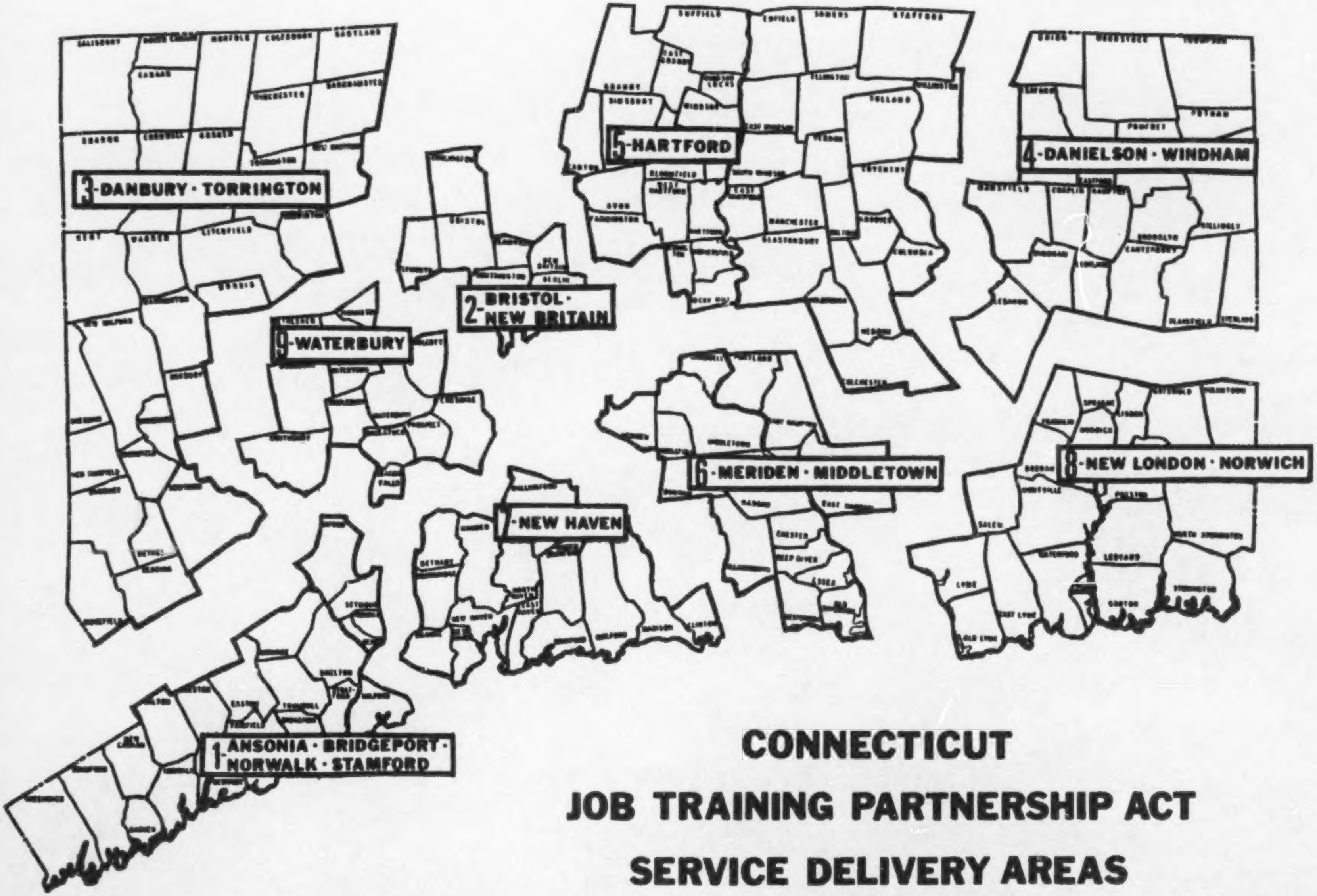
CONNECTICUT LABOR MARKET AREAS

Department of Labor
Employment Security Division

LM-41(1-79)


1-ANSONIA · BRIDGEPORT · NORWALK · STAMFORD
2-BRISTOL · NEW BRITAIN
3-DANBURY · TORRINGTON
4-DANIELSON · WINDHAM
5-HARTFORD
6-MERIDEN · MIDDLETOWN
7-NEW HAVEN
8-NEW LONDON · NORWICH
9-WATERBURY

CONNECTICUT

JOB TRAINING PARTNERSHIP ACT

SERVICE DELIVERY AREAS

FISCAL 1984

INTRODUCTION

Annual Planning Information (API) summaries are prepared each year for the state of Connecticut and the five labor market areas, Bridgeport, Hartford, New Haven, Stamford and Waterbury. The API provides historical, current and outlook information on employment, unemployment and occupational trends, as well as data on the size and characteristics of the population and labor force, the unemployed, the economically disadvantaged, the underutilized and other special groups. Although primarily designed to answer the information needs of Employment Security Agency planners, the API should also be of value to other labor market information users, including vocational education planners, major employers, management consultants, labor union officials, and others in need of demographic detail and information on occupational trends.

This summary was prepared in the Office of Research and Information by Carl Wallner, Research Analyst IV. Questions concerning the content of the report should be addressed to Mr. Wallner at the Office of Research and Information, Connecticut Labor Department, 200 Folly Brook Boulevard, Wethersfield, Connecticut 06109, or by telephone at (203) 566-3462.

Highlights and Conclusions

The consensus forecast of the U. S. Economy is reported to assume an economic recovery that is now in progress or soon will be. In general, Connecticut should follow the pattern of the national recovery, but should exhibit its usual three to six month lag. Basically this lag is caused by Connecticut's historical dependence on capital equipment manufacturing which has one of the longest lead times in placing or cancelling orders over time.

As was true a year earlier, the state's jobless rate was below that of the nation in every month of 1982. This has continued to be true in the first four months of 1983. As of April 1983, the state's unemployment rate, not seasonally adjusted, stood at 7.0 percent of the labor force compared to an unadjusted rate of 10.0 percent for the United States. However, nonfarm employment in Connecticut edged off by 0.3 percent over the year. This reduction was centered in the manufacturing sector of the economy, down 4.9 percent, reflecting recessionary pressures. Nonmanufacturing employment grew slightly by 1.6 percent over the year.

Most factory categories declined and all metallic manufacturing components. The most significant reductions were posted in the machinery, primary metals and instruments and clocks components, off 13.5, 11.4, and 9.2 percent.

According to the decennial census of 1980, the resident population in the United States, excluding Armed Forces Overseas, increased from 203,302,031 in 1970 to 226,504,825. This represents an increase of 11.4 percent as compared to an increase of 13.3 percent for the prior ten year period from 1960 to 1970.

New England's population increased only 4.2 percent from 1970 to 1980, compared to the national average of 11.4 percent. Connecticut's population, at 3,126,730 in 1982, is up only 2.7 percent since 1970. The relatively slight growth in the state's population reflects a continuing decline in the birth rate.

Nonfarm employment is anticipated to trend upward through 1987. The growth is expected in the nonfactory sector, paced by the service and trade industries.

The largest demand for workers is expected to be in the clerical and service occupations. Particularly needed will be secretaries, stenographers, typists, and various types of office personnel. Also in demand will be food service workers and numerous other kinds of service workers.

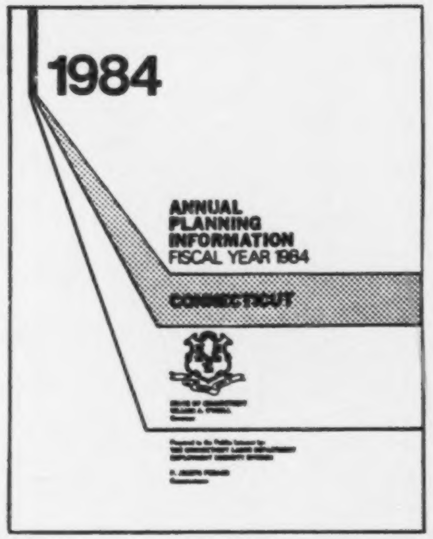
In fiscal year 1984, the state's unemployment rate is forecast to be 6.8 percent of the labor force or approximately 111,500 persons. Joblessness is expected to be considerably higher among nonwhite workers than among those that are white. Teen-age joblessness will be the problem, particularly among nonwhites where these rates are anticipated to be between 19.9 and 28.6 percent.

Persons who will be in need of employment related services in Connecticut are expected to total 441,360 in fiscal year 1984. These are expected to include 376,950 different individuals who will at some time during the year, experience an interval of joblessness. Those persons considered as long-term unemployed, who are expected to be included in this total, will number 27,640.

These are people who will be jobless for a period of fifteen weeks or longer during the coming year. The other major group in need of employment related services are those persons employed part time for economic reasons. These under-utilized persons should number some 64,410.

It is projected that in fiscal year 1984, there will be 310,740 persons in Connecticut living below the poverty level. This is anticipated to include 9.8 percent of all persons in the state and a rise of 98,550 over 1970. Of the total persons below the poverty level, 198,390 will be white and 112,350 will be nonwhite, this group comprising black persons and those of other racial groups. Persons in families, numbering 188,350, are expected to make up slightly over 60 percent of the state's poor. This will be an increase of 38,220 since 1970 and will include 103,720 white and 84,630 nonwhite persons.

Related children under eighteen below the poverty level are projected to total 88,460 in fiscal 1984, up 9,840 over the fourteen-year interval. Person sixty five years of age and over below the poverty level are projected to total 93,840 in fiscal 1984, an increase of 47,710 since 1970. Of this number 82,280 are expected to be white and 11,560 nonwhite. In 1970 there were 43,700 whites and 2,430 nonwhites.



Description of State

Description of State

Connecticut, encompasses just over 5,000 square miles and is located in the northeastern part of the country. It is situated on Long Island Sound and is bordered on the east by Rhode Island, on the north by Massachusetts and on the west by New York state. From east to west its dimensions are roughly 100 miles and from north to south, about 50 miles.

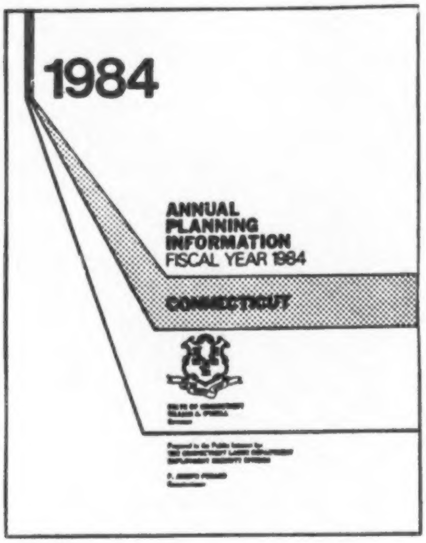
The state is favorably located between the New England and other Eastern seaboard markets. About one-third of the total population of the United States and about 60 percent of the Canadian population live within a 500 mile favorable access to the European and Eastern South American export markets. The Connecticut harbors at Bridgeport, New Haven and New London accomodate most deep draft vessels. The Connecticut Department of Transportation is currently engaged in fostering and improving mass transportation facilities for the state. Their operations include financing and running buses from outlying areas to Hartford, Stamford, New Haven and other cities, and operating jointly with the state of New York, a commuter rail service in southern Connecticut and New York.

Connecticut, one of the most highly industrialized states in the country, ranks fifth in percentage of nonfarm workers engaged in manufacturing. About three out of ten persons in the nonfarm work force are employed in this sector of the economy. The state's manufacturing firms, numbering about 6,000, provide employment for over 400,000 persons. Manufacturing is highly diversified. Over 80 percent of the 426 manufacturing classifications listed in the Federal Government's "Standard Industrial Classifications Manual" are represented in Connecticut.

Manufacturing industries are divided into two main groups, metallic and nonmetallic.

Metallic goods producers in Connecticut employ nearly three quarters of the total factory work force. Five of the state's largest factory categories are in the metallic segment. Firms manufacturing transportation equipment employ the largest number of factory workers, approximately 85,000. Transportation equipment products include aircraft engines, helicopters, submarines and motor vehicle parts. These business enterprises are located primarily in the Hartford, Middletown, New Haven, Bridgeport and New London areas. The second largest factory group in the state is the fabricated metals industry, which employs about 57,000 workers. These firms manufacture hand tools, screw machine products, springs, hardware and office furniture. New Britain, Bridgeport, Hartford and Waterbury have the greatest concentrations of this type of production. The third largest aggregate is the electrical equipment industry with approximately 49,000 workers. The chief products of the firms in this group are ball bearings, metalworking and metal cutting machines, office machines and machines which form rubber, plastic and glass products. Machinery firms are concentrated, to a large extent, in Hartford, New Britain and the western portion of the state. Other important metal products industries are instruments and clocks and primary metals. Together they employ almost 43,000 persons.

Somwhat over one quarter of the state's manufacturing employment is in non-metalworking industries with almost 116,000 employees. Important businesses in this segment are printing and publishing, chemicals, rubber and plastics, food, apparel and paper. Seven out of ten of the state's nonfarm jobs are in nonfactory enterprises (about 1,000,000). Six of every ten workers in this sector are employed either in trade or in service businesses. Just under one-fifth of nonfactory employees work for government agencies, for the most part on the state and local level.



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FISCAL YEAR 1984

CONNECTICUT

Economic Developments and Outlook

Economic Developments and Outlook

The latest consensus, or average forecast of approximately fifty of the leading economic and financial institutionsaccross the country, is for the U. S. economy to experience a moderate recovery. Gross National Product, adjusted for inflation, should grow by 1.5 percent during 1982-83 and by 3.5 percent during 1983-84. This according to the Economic Report of The Governor for 1983-1984 produced by Connecticut's Office of Policy and Management. Inflation, as measured by the Consumer Price Index, is anticipated to be 5 percent during calendar 1983 and 5.5 percent during calendar 1984.

The U. S. economy is seen as giving mixed signals at the present time. Overall, evidence is perceived as favoring an economic recovery to be under way now, or in the very immediate furture. Some of the positive factors noted as influencing this conclusion are:

- Inventories have been reduced materially and was one of the main reasons why the fourth quarter of 1982 is expected to show a 1.5 percent growth in real terms; further cuts are not a likely probability.

- Payrolls, as well as other labor-related costs, have been trimmed considerably and unemployment is not likely to go above the 11.0 percent level.

- Consumer liquidity in the aggregate has risen considerably. Real interest rates are still at very high levels and have encouraged increased savings and reduced borrowing.

- Total personal wealth has been enhanced greatly in recent months by sharp gains in the stock and bond markets, as well as some improvement in the selling prices of single family homes. A sustained rise in the market has been the most accurate leading indicator of economic recoveries.

- The Federal Reserve Board has eased monetary policy and is expected to continue the present trend by increasing the money supply and by lowering the discount rate.

- Defense spending has been increasing and will continue to increase in spite of current discussion about defense cutbacks.

- The leading economic indicators have been rising for seven of the past eight months. These have also been good criteria in forecasting economic recoveries.

- Federal spending cuts are going to be more difficult to enact.
- Inflation has decreased substantially, making goods and services more attractive to the consumer.

- Consumers have had three relatively lean years in spending and have a substantial level of pent-up demand, especially for houses and autos. The average consumer is liquid and wealthier and will probably be more willing to spend as he regains confidence.

- Since operating expenses have been reduced substantially and inventories are at such low levels, any incremental volume increase in consumption would stimulate production and profits and improve cash flow.

Some of the negative factors noted that point to a moderate recovery and tend to preclude a more vigorous recovery are:

- Capital expenditures have been slashed significantly with inflation adjusted expenditures declining for the past two years. Additional reductions are expected in calendar 1983 in spite of the recovery because capacity utilization is so low.

- Imports fell substantially due primarily to the over-evaluation of the dollar. The Federal Reserve Board is expected to encourage further reductions in interest rates, but other countries are doing the same and the overvalue differential is not expected to improve significantly in 1983. In 1983, exports are expected to drop for the third consecutive year due to the overvalued dollar and the projected weak economic recovery of the major U. S. trading partners.

- Consumer confidence remains low due to presently high unemployment rates, and these rates are not expected to improve significantly over the next twelve months.

Unemployment, presently 10.8 percent-seasonally adjusted annual rate-is expected to begin a very gradual decline and should not reach single digit levels until late 1983 or early 1984.

The expected moderate economic recovery, the usual increases in productivity during a recovery and the growing labor force are the major reasons why the improvement is expected to be so gradual.

A number of factors could affect the forecast however according to the Report. If monetary policy does not continue to ease, significant increases in government borrowing due to the large projected federal deficit and increase in private borrowing due to the economic recovery, could cause a credit crunch and a rebound of interest rates in the second half of 1983. Federal deficits usually stimulate the economy, but must be financed otherwise they cause higher interest rates which weaken the economy. Final numbers in the federal budget probably will remain in flux for quite some time, adding to the uncertainty of federal policy. Another factor which could influence the forecast is the impact of the potential default of countries like Argentina, Mexico, Brazil and Poland to the world's financial community. Political crises and crop failures are also factors that could affect the forecast.

The consensus forecast of the U. S. economy is reported to assume an economic recovery that is now in progress or soon will be. In general, Connecticut should follow the pattern of the national economy in a moderate recovery, but should exhibit its usual three to six month lag. Basically, this lag is caused by Connecticut's historical dependence on capital equipment manufacturing which has one of the longest lead times in placing or cancelling orders as economic activity changes over time.

It is anticipated that during the spring or late summer months the Connecticut economy should be in a moderate recovery path. Primary factors assisting this recovery are expected to be increased defense spending, increased high rechnology, increased exports of high technology, increased demand for insurance, increased demand for single family housing and increased activity in real estate and finance. Except for defense and high technology related manufacturing, it is anticipated that the manufacturing sector will continue to lanquish until the demand for durable goods improves. This factor is given as the main reason for the forecast of a moderate economic recovery for Connecticut over the next eighteen months.

TABLE 1

DEPARTMENT OF DEFENSE PRIME CONTRACT AWARDS TO CONNECTICUT FIRMS

YEAR	CURRENT DOLLARS	1967 DOLLARS*
1955	786,508,000	$1,025,434,000
1956	$1,383,792,000	1,679,359,000
1957	934,913,000	1,067,252,000
1958	699,127,000	779,406,000
1959	844,846,000	923,329,000
1960	1,105,050,000	1,206,386,000
1961	1,074,255,000	1,170,212,000
1962	1,158,871,000	1,256,910,000
1963	1,099,645,000	1,190,092,000
1964	1,046,752,000	1,121,921,000
1965	1,684,817,000	1,784,764,000
1966	2,141,716,000	2,212,517,000
1967	1,981,697,000	1,981,697,000
1968	2,145,912,000	2,073,345,000
1969	1,408,596,000	1,318,910,000
1970	1,093,892,000	976,689,000
1971	1,256,872,000	1,077,935,000
1972	1,295,202,000	1,083,851,000
1973	2,052,591,000	1,662,017,000
1974	2,429,398,000	1,722,977,000
1975	1,542,814,000	949,424,000
1976	2,298,702,000	1,327,195,000
1977	2,200,285,000	1,192,566,000
1978	4,860,722,000	2,441,347,000
1979	2,455,399,000	1,133,087,000
1980	3,556,976,000	1,485,167,000
1981	4,494,258,000	1,700,438,000
1982	5,905,036,000	2,114,984,000

*Producer Price Index for capitol equipment used for deflator to 1967 dollars.

Hours and Earnings

Annual average manufacturing production worker earnings in Connecticut rose over the year by $14.25 to $333.32 per week in 1982. The workweek was shortened by 1.1 hours to 40.5 while hourly earnings climbed by 56 cents to $8.23. Highest earnings, among metallic manufacturing industries, $422.30 per week, were averaged in the transportation equipment industry for a 41.0 hour work week at the highest hourly earnings, $10.30 per hour. The next highest earnings were recorded in the machinery industry, $366.08, for a 41.6 hour work week at $8.80 per hour. The average weekly pay check for primary metals workers was $362.61 for 41.3 hours at $8.78 per hour.

Of the nine listed nonmetallic manufacturing industries, five averaged earnings in excess of $300 per week as compared to four in 1981. These were chemicals, $383.05, paper, $378.45, "other" nonmetallic manufacturing, $321.12, printing and publishing, $312.95, and food, $309.17. Construction and mining workers earned an average $497.21 for 37.3 hours at $13.33 per hour.

TABLE: 2

HOURS AND EARNINGS

1982 ANNUAL AVERAGES

Connecticut	Average Weekly Earnings	Average Weekly Hours	Average Hourly Earnings
Total Manufacturing	$333.32	40.5	$ 8.23
Metallic Manufacturing	346.42	40.9	8.47
Primary Metals	362.61	41.3	8.78
Fabricated Metals	311.45	40.5	7.69
Machinery (Exc. Elec.)	366.08	41.6	8.80
Electrical Equipment	275.31	39.9	6.90
Transportation Equipment	422.30	41.0	10.30
Instruments & Clocks	318.61	42.2	7.55
Other Metallic Mfg.	277.38	40.2	6.90
Nonmetallic Manufacturing	301.75	39.6	7.62
Food	309.17	40.1	7.71
Textiles	238.13	37.5	6.35
Apparel	187.26	35.2	5.32
Lumber & Furniture	248.18	39.9	6.22
Paper	378.45	45.0	8.41
Printing & Publishing	312.95	37.3	8.39
Chemicals	383.05	41.5	9.23
Rubber & Misc. Plastics	278.30	39.7	7.01
Other Nonmetallic Mfg.	321.12	40.7	7.89
Nonmanufacturing			
Construction	497.21	37.3	13.33

TABLE 3

FACTORY PRODUCTION WORKER EARNINGS

CONNECTICUT AND UNITED STATES

ANNUAL AVERAGES 1947 - 1982

	- Connecticut -			- United States -		
	Average Weekly Wages	Weekly Hours	Hourly Earnings	Average Weekly Wages	Weekly Hours	Hourly Earnings
1947	$ 51.39	41.6	$1.24	$ 49.17	40.4	$1.22
1948	54.80	41.2	1.33	53.12	40.0	1.33
1949	53.57	39.1	1.37	53.88	39.1	1.38
1950	59.49	41.6	1.43	58.32	40.5	1.44
1951	67.31	42.6	1.58	63.34	40.6	1.56
1952	70.14	42.0	1.67	67.16	40.7	1.65
1953	74.87	42.3	1.77	70.47	40.5	1.74
1954	72.76	40.2	1.81	70.49	39.6	1.78
1955	78.21	41.6	1.88	75.70	40.7	1.86
1956	82.57	41.7	1.98	78.78	40.4	1.95
1957	84.66	40.7	2.08	81.59	39.8	2.05
1958	85.54	39.6	2.16	82.71	39.2	2.11
1959	93.11	41.2	2.26	88.26	40.3	2.19
1960	93.26	40.2	2.32	89.72	39.7	2.26
1961	97.27	40.7	2.39	92.34	39.8	2.32
1962	101.35	41.2	2.46	96.56	40.4	2.39
1963	104.90	41.3	2.54	99.63	40.5	2.46
1964	108.47	41.4	2.62	102.97	40.7	2.53
1965	113.25	42.1	2.69	107.53	41.2	2.61
1966	121.82	43.2	2.82	112.34	41.3	2.72
1967	123.65	42.2	2.93	114.90	40.6	2.83
1968	128.63	41.9	3.07	122.51	40.7	3.01
1969	136.78	41.7	3.28	129.51	40.6	3.19
1970	140.29	40.9	3.43	133.33	39.8	3.35
1971	146.21	40.5	3.61	142.44	39.9	3.57
1972	160.61	41.5	3.87	154.71	40.5	3.82
1973	174.29	42.1	4.14	166.46	40.7	4.09
1974	182.99	41.4	4.42	176.80	40.0	4.42
1975	193.59	40.5	4.78	190.79	39.5	4.83
1976	208.90	40.8	5.12	209.32	40.1	5.22
1977	230.74	41.5	5.56	228.90	40.3	5.68
1978	250.32	42.0	5.96	249.27	40.4	6.17
1979	270.06	42.0	6.43	269.34	40.2	6.70
1980	296.47	41.8	7.09	288.62	39.7	7.27
1981 (R)	319.07	41.6	7.67	318.00	39.8	7.99
1982*	332.51	40.5	8.21	329.87	38.9	8.48

* Preliminary Estimates, 11-month average

(R) Revised

TABLE 4

CONNECTICUT
AVERAGE WEEKLY WAGES OF FACTORY PRODUCTION WORKERS
U.S. CONSUMER PRICE INDEX

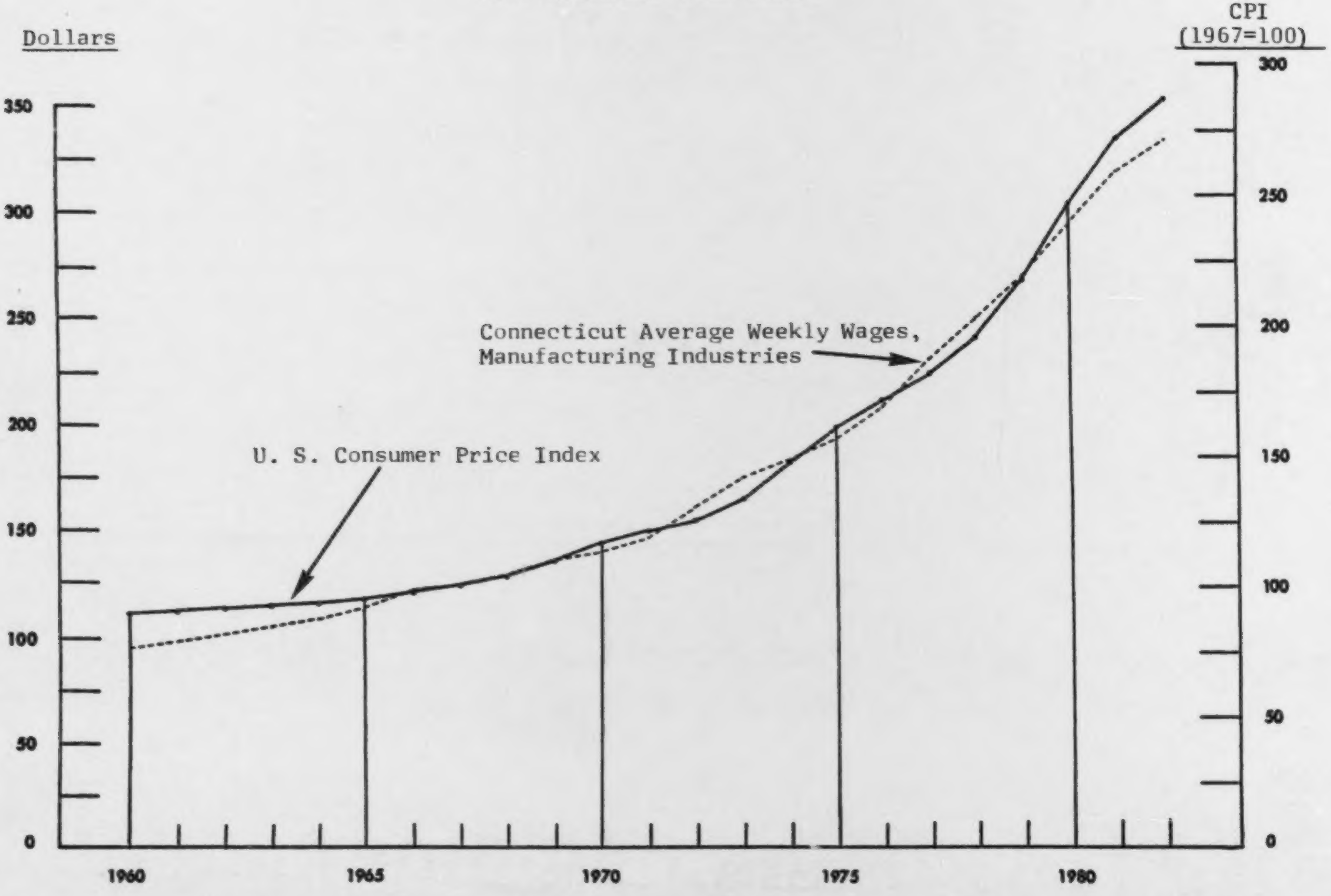


TABLE 5

PERSONAL INCOME 1954-1981 *

	Total Income in Connecticut (Million)	----------------Per Capita----------------			
		Connecticut	New England	United States	Connecticut's Rank **
1954(R)	$5,215	$2,319	$1,915	$1,781	2
1955(R)	5,614	2,441	2,043	1,872	3
1956(R)	6,121	2,643	2,167	1,972	2
1957(R)	6,520	2,764	2,260	2,044	1
1958(R)	6,550	2,678	2,260	2,061	1
1959(R)	7,016	2,781	2,364	2,160	1
1960(R)	7,296	2,868	2,439	2,216	1
1961(R)	7,689	2,972	2,517	2,264	1
1962(R)	8,190	3,094	2,630	2,369	1
1963(R)	8,646	3,170	2,701	2,454	1
1964(R)	9,278	3,316	2,835	2,592	1
1965(R)	10,002	3,501	3,008	2,772	1
1966(R)	11,007	3,792	3,248	2,980	1
1967(R)	12,050	4,106	3,482	3,161	1
1968(R)	12,836	4,331	3,745	3,430	1
1969	13,991	4,664	4,048	3,714	1
1970	14,930	4,913	4,306	3,945	1
1971	15,606	5,098	4,510	4,167	1
1972	16,773	5,464	4,847	4,515	1
1973	18,395	5,993	5,283	5,010	2
1974(R)	19,911	6,474	5,724	5,448	2
1975(R)	21,161	6,860	6,092	5,842	2
1976(R)	22,955	7,439	6,616	6,367	2
1977(R)	25,266	8,180	7,221	6,984	2
1978(R)	28,182	9,106	7,985	7,775	2
1979(R)	31,785	10,253	8,913	8,655	2
1980(R)	35,936	11,536	9,966	9,480	2
1981(R)	40,164	12,816	11,058	10,491	2

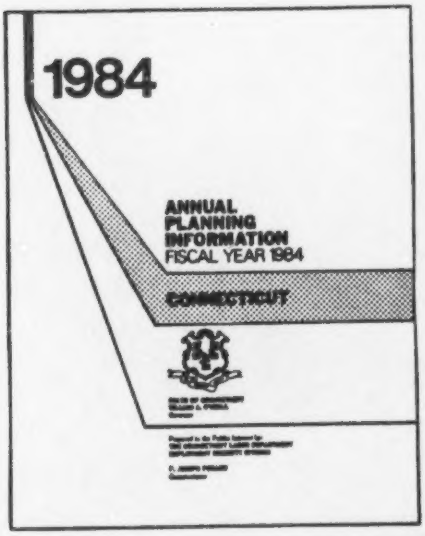
(R) Revised
*Source: U.S. Department of Commerce, Survey of Current Business. October 1982
**Excluding District of Columbia

TABLE 6

U. S. CONSUMER PRICE INDEX
(1967=100)

Year	Annual Average
1960	88.7
1961	89.6
1962	90.6
1963	91.7
1964	92.9
1965	94.5
1966	97.2
1967	100.0
1968	104.2
1969	109.8
1970	116.3
1971	121.3
1972	125.3
1973	133.1
1974	147.7
1975	161.2
1976	170.5
1977	181.5
*1978	195.4
*1979	217.4
*1980	246.8
*1981	272.4
**1982	288.8
*November, 1982	293.6

*CPI-U: All items, all urban consumers.
** Eleven month average from January to November 1982
Source: U. S. Bureau of Labor Statistics.



1984

ANNUAL
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CONNECTICUT

Population and Labor Force Characteristics

Population and Labor Force Characteristics and Trends

According to the decennial census of 1980, the resident population in the United States, excluding Armed Forces Overseas, increased from 203,302,031 in 1970 to 226,504,825. This represents an increase of 11.4 percent as compared to an increase of 13.3 percent for the prior ten year period from 1960 to 1970. The heavily populated states experienced a slowing down of growth in their population during the 1970's. This slow growth affected the states in New England, the Middle Atlantic, the East North Central and the West North Central Regions.

New England's population increased only 4.2 percent from 1970 to 1980, compared to the national average of 11.4 percent. This trend of slower growth is expected to continue in the future. The slowest growth in the region is confined to the southern New England States of Connecticut and Massachusetts.

Latest Connecticut Health Department estimates put the state's total population at 3,126,730 in 1982, up 82,730 or 2.7 percent since 1970. However, divergent trends were seen within the sixteen labor market areas. Significant percentage increases were recorded in the labor market areas of Danbury (+27.7), Middletown(+14.6), Willimantic (+13.3), Danielson (+9.4) and Bristol (+6.0). The Danbury area also posted the greatest numerical increase in population, rising by 39,480. This upsurge in Danbury was due in large part to the short commuting distance to and from New York City. Because of the location, many workers from surrounding labor areas, as well as New York, have moved into the area. In addition, many corporations have chosen the Danbury area for corporate headquarters or branch sites.

Population decreased in four of the state's sixteen labor market areas. Percentage reductions were reported for the labor areas of Stamford (-4.1), New Britain (-2.5), Bridgeport (-1.5), and Norwalk (-0.1) as population gains in the suburban towns within each of these four areas were insufficient to counterbalance the losses of the core city.

A continuing decline in the state's bith rate is evident. The rate first began to move downward in the late 1950's. According to statistics developed by the Connecticut Health Department, there were 56,659 births in the state in 1960 or about 22.3 per 1,000 population. By 1970 births had fallen off to 50,738 or 16.7 per thousand. A provisional Health Department figure shows an estimated 40,030 births occurring in 1981, bringing the birth rate even lower to 12.8 per thousand. This consistent demographic trend had only a tangential relationship with the varying economic trends occurring during the same time span. The 1950's witnessed slow but uneven growth; in the 1960's the state's economy was expanding rapidly and jobs were plentiful; and during the early 1970's two major recessions sent many jobseekers to what appeared to be the warmer and more flourishing economic climate of the Sun Belt states. Developments during the latter part of the 1970's and early 1980's have reversed this outmigration, but the birth rate remains and is expected to remain slow.

As shown on table 7, the state's civilian population is expected to show a net increase of 154,667 or 5.1 percent over the fourteen-year span from 1970 to 1984. In terms of absolute numbers, 79,893, or over one half of the increase, is anticipated in the number of persons classified in the "other" racial category.

It is anticipated that the rise will include 41,494 more women and 38,489 more men in this group. The increases in the "Other" racial grouping reflects to a considerable extent, a rise in the number of persons of Spanish origin. In the 1980 Census, of the Spanish origin persons nationwide, 40 percent did not report a specific race, but reported in the "Other" category; about 56 percent reported "White". In 1970, the few Hispanic persons who marked "Other" and provided write-in entries such as "Puerto Rican" or "Mexican," were reclassified as "White". Thus, in 1970 only 1 percent of the Spanish-origin persons were classified as "Other" and 93 percent as "White" (Data User News, Bureau of the Census, April 1981, Vol. 16, No. 4). The population figures given for the "White" and "Other" categories on table reflect the 1980 Census classification for Hispanic persons, both in the 1984 projected totals and the 1970 figures.

The next longest fourteen year rise of 43,094 is expected in the number of black persons, 23,009 more women and 20,085 more men. White persons, comprising almost 90 percent of the projected population, are expected to post the smallest long-term rise of 31,590.

Of the 3,170,800 total projected 1984 population, white males are anticipated to number 1,359,889 or 42.9 percent; white females will comprise 1,466,233 or 46.3 percent; black males will total 105,683 or 3.3 percent; black females will number 118,504 or 3.7 percent while "other" males will comprise 58,534 or 1.8 percent and "other" females 61,957 or 2.0 percent.

Of the eleven age cohorts listed, six showed increases and five posted projected losses over the fourteen-year interval. The two most significant changes were a gain of 155,838 or 42.3 percent in the number of persons 25 to 34, and an about equal numerical loss of 155,117 or 28.2 percent in the group under ten years of age. Also of significance is a rise of 132,087 or 45.5 percent in the number of persons sixty five years of age and older and also an increase of 54,845 or 19.3 percent in total persons aged 55 to 64. The only recorded loss above the age of seventeen is anticipated in the age group between 45 and 54, down 51,369 or 13.5 percent from 1970 to 1984. Persons fifteen years of age are anticipated to show a drop in their numbers of 8,507 or 14.3 percent while the 16 to 17 category is reduced by 8,313 or 7.6 percent. The pattern for the total was set by the white population.

Among the black population, the only projected losses are seen in the group under ten years of age, down 3,635 or 15.3 percent among males and 4,415 or 18.5 percent among females. The largest increases are anticipated in the number of black persons between the ages of 25 and 34, up 8,347 or 69.4 percent for black males and 7,572 or 50.4 percent for black females.

Both "other" males and females are expected to post increases in all age groups from the years 1970 through 1984. The largest increases in the "other" category are seen in the groups under ten years of age, up 10,211 or 200.2 percent for males and 10,603 or 240.4 percent for females.

Table 8 shows labor force and participation rates by race and sex for the years 1970 and also those projected for 1984. As can be seen, both the state's labor force and participation rate are shown to increase from 1970 to 1984. The population of working age will show a rise of 401,716 or 19.1 percent to 2,503,673 while persons in the labor force will increase by 341,712 or 26.3 percent to 1,639,906. This will result in a rise in the participation rate from 61.8 to 65.5. The rise largely reflects increased participation in the labor force by women. The male totals in all racial categories showed projected participation reductions. Conversely the participation rates for all female totals were up. The highest participation rate for females was projected for black women at 63.9. The second highest rate was for white women at 56.6 while that for "other" females was anticipated to be 54.8.

TABLE: 7

CIVILIAN POPULATION BY AGE, RACE AND SEX

			Change, 1970-1984	
Connecticut	1970	Projected FY 1984	Net	Percent
TOTAL	3,016,133	3,170,000	+154,667	+ 5.1
Under 10 Years	549,352	394,235	-155,117	- 28.2
10-14	305,517	222,092	- 83,425	- 27.3
15	59,307	50,800	- 8,507	- 14.3
16-17	109,912	101,599	- 8,313	- 7.6
18-19	94,701	101,599	+ 6,898	+ 7.3
20-24	218,709	254,201	+ 35,492	+ 16.2
25-34	368,468	524,306	+155,838	+ 42.3
35-44	355,511	431,749	+ 76,238	+ 21.4
45-54	379,825	328,456	- 51,369	- 13.5
55-64	284,789	339,634	+ 54,845	+ 19.3
65+	290,042	422,129	+132,087	+ 45.5
WHITE MALES	1,349,468	1,359,889	+ 10,421	+ 0.8
Under 10 Years	250,322	165,718	- 84,604	- 33.8
10-14	142,864	95,310	- 47,554	- 33.3
15	28,355	22,402	- 5,953	- 21.0
16-17	53,048	44,803	- 8,245	- 15.5
18-19	42,130	44,803	+ 2,673	+ 6.3
20-24	91,117	110,198	+ 19,081	+ 20.9
25-34	162,547	231,823	+ 69,276	+ 42.6
35-44	161,524	192,438	+ 30,914	+ 19.1
45-54	175,949	144,484	- 31,465	- 17.9
55-64	129,073	151,401	+ 22,328	+ 17.3
65+	112,539	156,509	+ 43,970	+ 39.1
WHITE FEMALES	1,445,064	1,466,233	+ 21,169	+ 1.5
Under 10 Years	241,997	158,720	- 83,277	- 34.4
10-14	138,188	90,041	- 48,147	- 34.8
15	26,815	21,534	- 5,281	+ 19.7
16-17	49,337	43,069	- 6,268	- 12.7
18-19	45,600	43,069	- 2,531	- 5.5
20-24	108,251	108,735	+ 484	+ 0.4
25-34	170,676	229,852	+ 59,176	+ 34.7
35-44	168,518	199,231	+ 30,713	+ 18.2
45-54	185,286	154,802	- 30,484	- 16.5
55-64	143,558	169,565	+ 21,007	+ 14.6
65+	166,838	247,615	+ 80,777	+ 48.4
BLACK MALES	85,598	105,683	+ 20,085	+ 23.5
Under 10 Years	23,685	20,050	- 3,635	+ 15.3
10-14	11,039	11,269	+ 230	+ 2.1
15	1,902	2,224	+ 322	+ 16.9
16-17	3,353	4,447	+ 1,094	+ 32.6
18-19	2,764	4,448	+ 1,684	+ 60.9
20-24	6,233	12,028	+ 5,795	+ 93.0
25-34	12,035	20,382	+ 8,347	+ 69.4
35-44	9,305	11,312	+ 2,007	+ 21.6
45-54	7,240	8,333	+ 1,093	+ 15.1
55-64	4,398	6,158	+ 1,760	+ 60.7
65+	3,644	5,032	+ 1,388	+ 38.1

TABLE: 7

CIVILIAN POPULATION BY AGE, RACE AND SEX

Connecticut	1970	Projected FY 1984	Change, 1970-1984	
			Net	Percent
BLACK FEMALES	95,495	118,504	+23,009	+ 24.1
Under 10 Years	23,838	19,423	- 4,415	- 18.5
10-14	10,432	10,892	+ 460	+ 4.4
15	1,704	2,223	+ 519	+ 30.5
16-17	3,129	4,445	+ 1,316	+ 42.1
18-19	3,172	4,444	+ 1,272	+ 40.1
20-24	9,409	12,004	+ 2,595	+ 27.6
25-34	15,027	22,599	+ 7,572	+ 50.4
35-44	10,748	15,668	+ 4,920	+ 45.8
45-54	8,214	10,855	+ 2,641	+ 32.2
55-64	5,215	7,800	+ 2,585	+ 49.6
65+	4,607	8,151	+ 3,544	+ 76.9
OTHER MALES	20,045	58,534	+38,489	+192.0
Under 10 Years	5,100	15,311	+10,211	+200.2
10-14	1,700	6,998	+ 5,298	+311.6
15	290	1,145	+ 855	+294.8
16-17	560	2,289	+ 1,729	+308.8
18-19	490	2,289	+ 1,799	+367.1
20-24	1,600	4,968	+ 3,368	+210.5
25-34	3,515	9,186	+ 5,671	+161.3
35-44	2,530	6,532	+ 4,002	+158.2
45-54	1,580	5,296	+ 3,716	+235.2
55-64	1,400	2,286	+ 886	+ 63.3
65+	1,280	2,234	+ 954	+ 74.5
OTHER FEMALES	20,463	61,957	+41,494	+202.8
Under 10 Years	4,410	15,013	+10,603	+240.4
10-14	1,294	7,582	+ 6,288	+485.9
15	241	1,272	+ 1,031	+427.8
16-17	485	2,545	+ 2,060	+424.7
18-19	545	2,545	+ 2,000	+367.0
20-24	2,099	6,268	+ 4,169	+198.6
25-34	4,668	10,464	+ 5,796	+124.2
35-44	2,886	6,569	+ 3,683	+127.6
45-54	1,556	4,687	+ 3,131	+201.2
55-64	1,145	2,424	+ 1,279	+111.7
65+	1,134	2,588	+ 1,454	+128.2

TABLE: 8

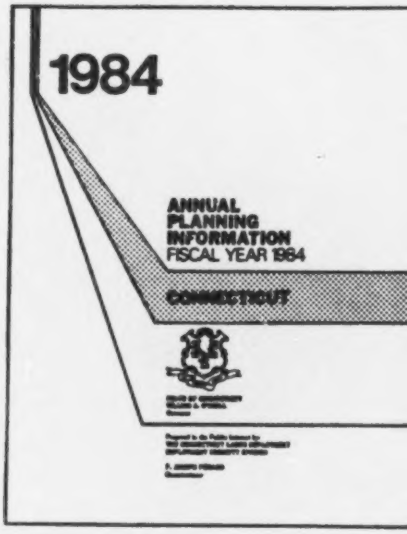
CIVILIAN LABOR FORCE BY AGE, RACE AND SEX (AGE 16+)

	1970		Projected FY 1984	
Connecticut	Civilian Labor Force	Labor Force Participation Rate	Civilian Labor Force	Labor Force Participation Rate
TOTAL	1,298,194	61.8	1,639,906	65.5
16-17 Years	44,217	40.2	61,707	60.7
18-19	51,324	54.2	63,934	62.9
20-24	147,287	67.3	190,642	75.0
25-34	251,406	68.2	423,166	80.7
35-44	263,299	74.1	366,735	84.9
45-64	486,854	73.2	475,342	71.1
65+	53,807	18.5	58,380	13.8
WHITE MALES	743,569	80.2	806,816	75.0
16-17 Years	23,766	44.8	25,972	58.0
18-19	24,351	57.8	28,252	63.1
20-24	70,707	77.6	86,236	78.3
25-34	155,232	95.5	214,028	92.3
35-44	156,355	96.8	177,830	92.4
45-64	281,535	92.3	242,861	82.1
65+	31,623	28.1	31,637	20.2
WHITE FEMALES	466,619	45.0	677,119	56.6
16-17 Years	18,403	37.3	29,084	67.5
18-19	23,575	51.7	28,838	67.0
20-24	63,652	58.8	80,371	73.9
25-34	71,001	41.6	160,198	69,7
35-44	87,798	52.1	157,145	78.9
45-64	182,837	55.6	197,698	60.9
65+	19,353	11.6	23,785	9.6
BLACK MALES	37,811	77.2	53,772	74.5
16-17 Years	899	26.8	1,717	38.6
18-19	1,600	57.9	2,578	58.0
20-24	4,895	78.5	9,585	79.7
25-34	10,745	89.3	17,990	88.3
35-44	8,388	90.1	9,818	86.8
45-64	9,872	84.8	10,833	74.8
65+	1,412	38.7	1,251	24.8
BLACK FEMALES	33,052	55.5	54,963	63.9
16-17 Years	742	23.7	2,101	47.3
18-19	1,440	45.4	2,396	53.9
20-24	5,992	63.7	8,114	67.6
25-34	8,834	58.8	16,156	71.5
35-44	6,923	64.4	12,165	77.6
45-64	8,263	61.5	13,016	69.8
65+	858	18.6	1,015	12.5

TABLE: 8

CIVILIAN LABOR FORCE BY AGE, RACE AND SEX (AGE 16+)

	1970		Projected FY 1984	
Connecticut	Civilian Labor Force	Labor Force Participation Rate	Civilian Labor Force	Labor Force Participation Rate
OTHER MALES	10,165	78.5	26,346	75.1
16-17 Years	311	55.6	1,834	80.1
18-19	171	34.8	830	36.3
20-24	958	59.9	3,032	61.0
25-34	3,167	90.1	8,177	89.0
35-44	2,404	95.0	5,847	89.5
45-64	2,756	92.5	6,181	81.5
65+	398	31.1	445	19.9
OTHER FEMALES	6,978	47.8	20,892	54.8
16-17 Years	96	19.7	999	39.3
18-19	187	34.4	1,040	40.9
20-24	1,083	49.7	3,304	52.7
25-34	2,427	52.0	6,618	63.2
35-44	1,431	49.6	3,930	59.8
45-64	1,591	58.9	4,752	66.8
65+	163	14.4	249	9.6



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CONNECTICUT

Employment Developments and Outlook by Industry

Employment Developments and Outlook by Industry

In the four-year interval, from 1983 to 1987, state nonfarm employment is expected to expand by 82,396 or about 5.4 percent. This will be an annual average rise of 20,600 workers. Almost eighty-three percent of the anticipated rise is expected in the nonmanufacturing enterprises. This will increase by an estimated 68,026 or 6.2 percent for an annual average rise of 17,006. All major nonfactory categories will gain by 1987 with the largest rises occurring in service (+26,266) and trade (+23,087). More than half of the rise in the service group will be in health services, expected to advance by about 14,300 or 12.2 percent to 131,749 in 1987. Business services are also expected to post a sizeable gain of 7,963 or 12.3 percent in the four year period to an average 72,649. Educational services will continue employment reduction by 3,741 in the projected four-year interval for an annual average decline of 935. About seven out of ten of the additional workers in the trade group will be added by retail trade establishments. Finance and real estate and insurance firms will post respective long-term gains of 4,547 and 4,205 employees.

The state's factory workforce is expected to advance in the long term. By 1987 factories are anticipated to augment their payrolls by 14,370 or 3.3 percent. The increases are expected primarily in the state's "hard goods" industries. Particularly affected will be machinery, up 3,527 by 1987, transportation equipment, up 3,484, instruments, up 2,317 and electrical equipment, up 1,416. The workforces of printing and publishing and chemicals firms are expected to be augmented by 2,506 and 2,078 respectively over the projected four-year interval. Textiles and apparel employment will continue to show employment losses. Textiles employment is expected to fall by 894 and apparel by 106.

The miscellaneous "other manufacturing" aggregate will also continue to lose workers, dropping an average 1,374 in the 1983-87 interval.

Although in actual members, the state's manufacturing workforce will increase, as a proportion of nonagricultural employment the percentage will decrease steadily. From 28.32 percent in 1983, the proportion will be reduced to 27.77 percent in 1987. Conversely, the proportion of nonmanufacturing employment will edge upward from 71.68 percent in 1983 to 72.23 in 1987. In the four-year period, from 1983 to 1987, the proportion of trade employment to the total will rise from 22.01 percent to 22.32 percent; that of service employment should increase from 27.55 percent to 27.77 percent. The proportion of health services is expected to increase from 7.68 percent to 8.18 percent. On the other hand, educational services are anticipated to decline from 7.59 percent to 6.97 percent from 1983 to 1987.

TABLE 9
CONNECTICUT
ANNUAL AVERAGE EMPLOYMENT BY INDUSTRY
(BASED ON ESTABLISHMENTS LOCATED IN CONNECTICUT)

	1982		1983		1987	
Industry Title	Number	Percent	Number	Percent	Number	Percent
Total Nonag. Employment	1,494,936	100.00	1,528,467	100.00	1,610,863	100.00
Manufacturing	425,890	28.49	432,933	28.32	447,303	27.77
Primary Metals	19,311	1.29	18,633	1.22	19,112	1.19
Fabricated Metals	65,667	4.39	66,272	4.34	66,594	4.13
Machinery	56,005	3.75	58,065	3.80	61,592	3.82
Electrical Equipment	50,788	3.40	52,177	3.41	53,593	3.33
Transportation Equipment	82,773	5.54	84,695	5.54	88,179	5.47
Instruments	28,542	1.91	29,442	1.93	31,759	1.97
Food	12,020	0.80	12,390	0.81	12,471	0.77
Textiles	7,868	0.53	7,778	0.51	6,884	0.43
Apparel	10,717	0.72	10,324	0.68	10,218	0.63
Furniture & Lumber	6,495	0.43	6,590	0.43	6,755	0.42
Paper	9,746	0.65	9,782	0.64	10,106	0.63
Printing & Publishing	25,841	1.73	26,042	1.70	28,548	1.77
Chemicals	19,021	1.27	19,955	1.31	22,033	1.37
Rubber & Misc. Plast.	11,048	0.74	11,067	0.72	11,112	0.69
All Other Manufacturing	20,048	1.34	19,721	1.29	18,347	1.14
Nonmanufacturing	1,069,046	71.51	1,095,534	71.68	1,163,560	72.23
Construction & Mining	62,772	4.20	62,656	4.10	63,058	3.91
Transp. (Inc. R.R.)	33,504	2.24	35,506	2.32	38,582	2.40
Communications	18,003	1.20	18,191	1.19	18,959	1.18
Utilities	11,330	0.76	11,585	0.76	11,603	0.72
Trade	326,862	21.86	336,403	22.01	359,490	22.32
Wholesale	81,127	5.43	82,871	5.42	89,977	5.59
Retail	245,735	16.44	253,532	16.59	269,513	16.73
Finance & R.E.	54,896	3.67	56,312	3.68	60,859	3.78
Insurance	65,629	4.39	67,511	4.42	71,716	4.45
*Service	410,416	27.45	421,112	27.55	447,378	27.77
Business Services	62,439	4.18	64,686	4.23	72,649	4.51
Health Services	112,861	7.55	117,443	7.68	131,749	8.18
Educational Services	117,552	7.86	116,027	7.59	112,286	6.97
Law & Professional	26,304	1.76	27,096	1.77	29,737	1.85
All Other Services	91,260	6.10	95,860	6.27	100,957	6.27
Government	75,504	5.05	76,238	4.99	82,015	5.09
Post Office	10,130	0.68	10,020	0.66	9,900	0.61

*Government **education** and hospitals are included in this group.

TABLE 10 EMPLOYMENT CHANGE BY INDUSTRY

CONNECTICUT

	Employment Change 1982-1983			Employment Change 1983-1987		
	Entire Period	Pct.	Annual Average	Entire Period	Pct.	Annual Average
Total, Nonag. Employment	+ 33,531	+ 2.24	+33,531	+82,396	+ 5.39	+20,599
Manufacturing	+ 7,043	+ 1.65	+ 7,043	+14,370	+ 3.32	+ 3,592
Primary Metals	- 678	- 3.51	- 678	+ 479	+ 2.57	+ 120
Fabricated Metals	+ 605	+ 0.92	+ 605	+ 322	+ 0.49	+ 80
Machinery	+ 2,060	+ 3.68	+ 2,060	+ 3,527	+ 6.07	+ 882
Electrical Equipment	+ 1,389	+ 2.73	+ 1,389	+ 1,416	+ 2.71	+ 354
Transportation Equipment	+ 1,922	+ 2.32	+ 1,922	+ 3,484	+ 4.11	+ 871
Instruments	+ 900	+ 3.15	+ 900	+ 2,317	+ 7.87	+ 579
Food	+ 370	+ 3.08	+ 370	+ 81	+ 0.65	+ 20
Textiles	- 90	- 1.14	- 90	- 894	-11.49	- 224
Apparel	- 393	- 3.67	- 393	- 106	- 1.03	- 26
Furniture and Lumber	+ 95	+ 1.46	+ 95	+ 165	+ 2.50	+ 41
Paper	+ 36	+ 0.37	+ 36	+ 324	+ 3.31	+ 81
Printing and Publishing	+ 201	+ 0.78	+ 201	+ 2,506	+ 9.62	+ 626
Chemicals	+ 934	+ 4.91	+ 934	+ 2,078	+10.41	+ 520
Rubber and Plastic Prods.	+ 19	+ 0.17	+ 19	+ 45	+ 0.41	+ 11
All Other Manufacturing	- 327	- 1.63	- 327	- 1,374	- 6.97	+ 344
Nonmanufacturing	+ 26,488	+ 2.48	+26,488	+68,026	+ 6.21	+17,006
Construction and Mining	- 116	- 0.18	- 116	+ 402	+ 0.64	+ 100
Transportation (Inc. R.R.)	+ 2,002	+ 5.98	+ 2,002	+ 3,076	+ 8.66	+ 769
Communications	+ 188	+ 1.04	+ 188	+ 768	+ 4.22	+ 192
Utilities	+ 255	+ 2.25	+ 255	+ 18	+ 0.16	+ 5
Trade	+ 9,541	+ 2.92	+ 9,541	+23,087	+ 6.86	+ 5,772
Wholesale	+ 1,744	+ 2.15	+ 1,744	+ 7,106	+ 8.57	+ 1,776
Retail	+ 7,797	+ 3.17	+ 7,797	+15,981	+ 6.30	+ 3,995
Finance and Real Estate	+ 1,416	+ 2.58	+ 1,416	+ 4,547	+ 8.07	+ 1,137
Insurance	+ 1,882	+ 2.87	+ 1,882	+ 4,205	+ 6.23	+ 1,051
Service	+ 10,696	+ 2.61	+10,696	+26,266	+ 6.24	+ 6,566
Business Services	+ 2,247	+ 3.60	+ 2,247	+ 7,963	+12.31	+ 1,991
Health Services	+ 4,582	+ 4.06	+ 4,582	+14,306	+12.18	+ 3,576
Educational Services	- 1,525	- 1.30	- 1,525	- 3,741	- 3.22	- 935
All Other Services	+ 4,600	+ 5.04	+ 4,600	+ 5,097	+ 5.32	+ 1,274
Government	+ 734	+ 0.97	+ 734	+ 5,777	+ 7.58	+ 1,444
Post Office	- 110	- 1.09	- 110	- 120	- 1.20	- 30

TABLE 11

CONNECTICUT

POPULATION - LABOR FORCE - TOTAL AND MANUFACTURING EMPLOYMENT

ANNUAL AVERAGES 1950-1982

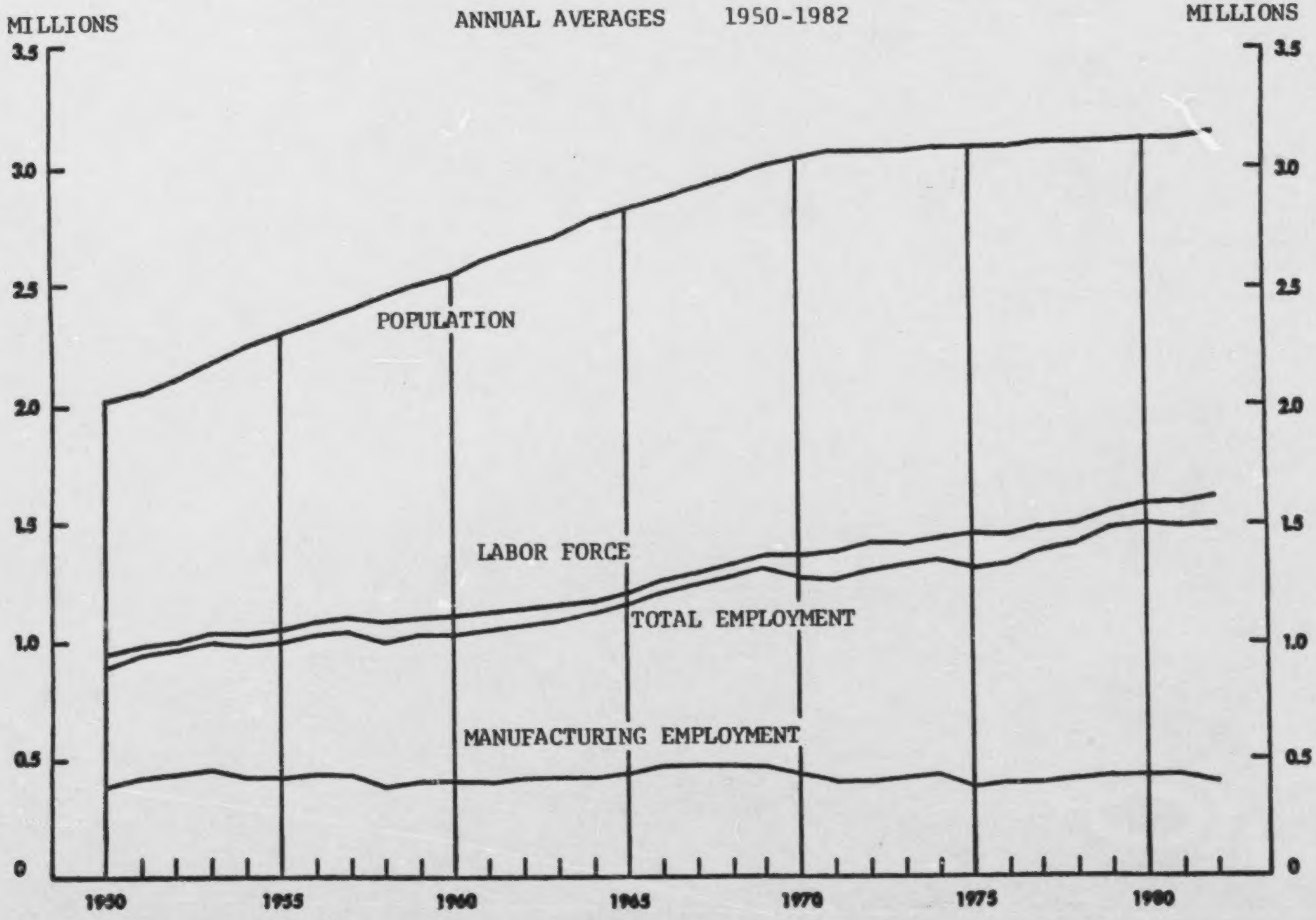
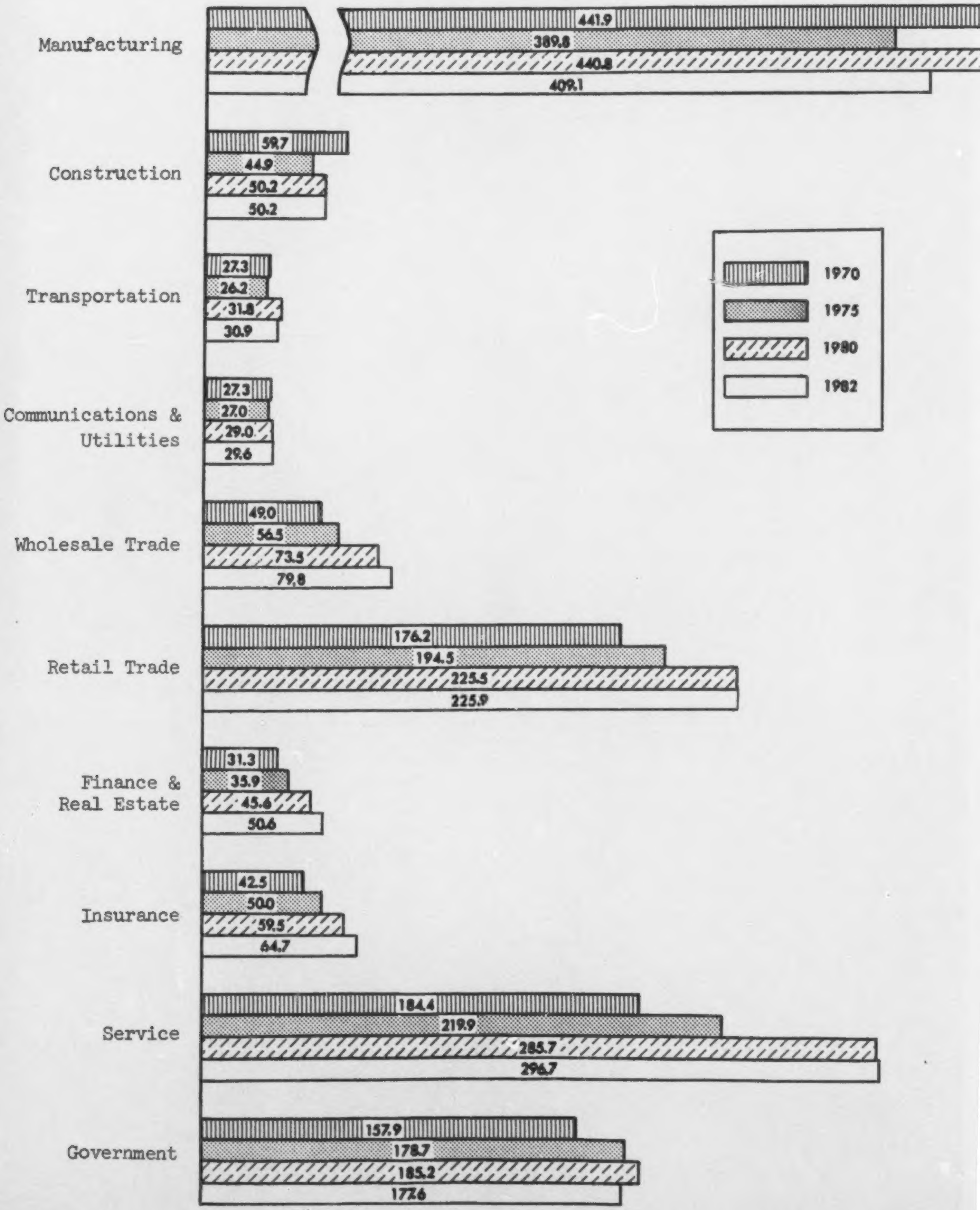
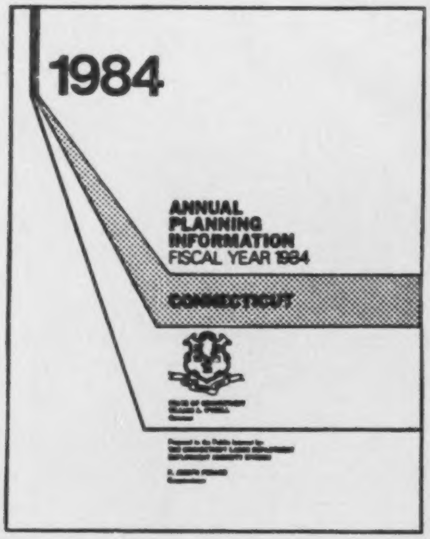


TABLE 12

CONNECTICUT NONAGRICULTURAL EMPLOYMENT
YEARLY AVERAGES 1970 - 1975 - 1980 - 1982
(In Thousands)





1984

ANNUAL
PLANNING
INFORMATION
FISCAL YEAR 1984

CONNECTICUT

Employment Developments and Outlook by Occupation

EMPLOYMENT DEVELOPMENTS AND OUTLOOK BY OCCUPATION

Professional and Technical

Professional and technical workers comprise the second largest category of all job openings projected for 1982-1987. In 1987, nearly 50,000 of a total of approximately 303,000 job openings will be classified as professional and technical. In this cohort, the fastest growing area will be in the health services field. Given the aging of the general population as a whole, the advances being made in medical care causing greater longevity, and increasing medical coverage as a part of employment contract, the need for this occupational sector becomes apparent. There will be a greater demand for nurses than any other health care professional. By 1987, 8,250 openings will exist for professional and licensed practical nurses with an actual growth of over 3,000. Also in considerable demand will be physicians and osteopaths and dental hygienists and assistants.

Engineers comprise another part of the growing number of professional and technical workers. By 1987, about ten percent of the projected professional and technical job openings will fall in this cohort. National buildup in the defense industry in the eighties and the ensuing effect on the transportation equipment industry which dominates Connecticut manufacturing, explains some of this projected growth. Other areas which will provide jobs in these occupational classifications will be the electrical equipment manufacturers and firms engaged in the production of instruments.

Overall employment in the insurance industry will increase by about 10 percent in the next five years. Increasing use is being made of computers in design, simulation and analysis by manufacturers of electrical equipment, machinery and transportation equipment. This trend will continue, creating 870 new jobs for computer specialists by 1987.

More modest gains will be made in the fields of life and physical science where chemists will account for about 55 percent of the growth. Mathematical specialists will do a little better, adding about 150 new jobs by 1987, mostly in the insurance industry where actuaries and statisticians will be employed.

The only net losses projected during the five year period among professional and technical jobholders are in the education field. Due to the declining birth rate of recent years, there are fewer children in the educational pipeline at all levels. By 1987, there will be a net loss of 1,500 teaching jobs. Reeducation of displaced and unemployed workers will provide some new jobs by 1987 and, as the international economy of the future causes shifts in occupations, more people will be seeking training in new skills.

Manager, Officials, Proprietors

Approximately nine percent of the openings expected in 1987 will be classified as managerial. The trade industry will be employing sales managers with retail trade hiring twice as many as wholesale trade. About 7,500 openings for "other managers" are projected to occur in the late eighties. These jobs will be found in all employment categories with about 28 percent in manufacturing, 23 percent in service, 20 percent in trades, and 13 percent in finance, insurance and real estate.

Sales Workers

An expansion of eight percent representing 5,697 new jobs is expected in the sales field by 1987. Job opportunities will be more numerous for sales clerks and somewhat fewer in the more specialized categories of insurance and real estate sales agents and brokers. Stock and bond sales agents will also contribute to the expected growth in sales occupations.

Clerical Workers

Both the largest and fastest growing occupational category is that of clerical workers. Twenty-three percent of all new openings in the state in the next five years will be clerical. The broadly placed general office clerk will describe the classification producing the greatest number of new jobs over the next five years, with secretarial openings coming in as a close second. Many opportunities will also be available for typists, bookkeepers, and cashiers. With the shift in employment away from manufacturing to service oriented work in Connecticut more of these clerical openings can be expected to be created. The people filling these jobs, especially general office clerks and secretaries will be dispersed most heavily in the service, finance, insurance, retail trade industries. Other clerical classifications representing significant growth are: order clerks, computer operators, keypunch operators, accounting clerks, clerical supervisors, production clerks, file clerks, receptionists, and combination switchboard operators and receptionists, shipping and receiving clerks, raters, stock clerks, telephone operators, and all other office clericals.

Craft and Kindred Workers

During the projection period, 1982-1987, 7,175 new jobs, or a growth of six percent, is expected to take place in the craft workers job classification. Job opportunities will be greatest for mechanics, repairers and installers with 1,817 new jobs expected by 1987. Also accounting for some expansion will be craft workers associated with the construction industry, carpenters, electricians, plumbers and the like, where an expected 728 new jobs will be created. Printing trade craft workers will add 787 more workers during the projection period.

Operatives

A projected growth of about four percent by 1987 marks the operative field as one where more workers will be needed. Expansion will be greatest for transportation equipment operatives, where truck drivers will increase by six percent and delivery and route workers will be up seven percent. Other occupations holding promise of significant growth will be assemblers and garage workers, expanding by three percent and six percent respectively. Semiskilled metalworking operatives such as metal lathe machine operatives and combination machine tool operatives as well as metal punch operatives and welders and flame cutters will also grow in numbers during the projection period. Due to the decline of the textile industry where foreign competition has had a significant impact, many semiskilled textile operatives will register a net decline in the next few years. Employment is expected to decline among semiskilled textile workers by about nine percent by 1987.

Service Workers

Fourteen percent of the projected growth of all occupations will be service workers during the projection period, 1982-1987. A general shift in employment away from manufacturing toward services accounts for the sizeable advances being predicted for some occupations. Health service workers can expect 12 percent increases in most occupational classifications.

An older population needing more medical care, progress in medical care, and better insurance coverage all contribute to the demand for more health services. Over 2,400 nurses aides and orderlies will be needed by 1987 to provide this care.

More leisure time, more women in the workforce, and recent innovations in the fast food industry have all contributed to the demand for an increasing number of food service workers by 1987. Demand for bartenders, waiters/waitresses, cooks will continue to be strong in the eighties. Protective service workers are also expected to grow in numbers. Twelve percent more firefighters will be needed by the end of the projection period, while 705 more police officers and detectives will be added to the workforce. Finally, workers providing personal services such as hairdressers and child care workers will also add to the employment rolls but to a somewhat lesser degree.

Nonfarm Laborers

Occupational projections show that nonfarm laborers will increase by 4.6 percent during the reporting period. Some growth will be seen in construction laborers, highway maintenance workers and gardeners, but the largest number of new workers will be hired as stock handlers.

TABLE 13

CONNECTICUT LABOR DEPARTMENT
EMPLOYMENT SECURITY DIVISION

OCCUPATIONAL EMPLOYMENT AND LABOR DEMAND 1/
STATEWIDE

OCCUPATIONAL TITLE	EMPLOYMENT 1982 ESTIMATED	1983 PROJECTED	1987 PROJECTED	JOB OPENINGS 1982-1983 TOTAL	REPLACE-MENT 2/	GROWTH	JOB OPENINGS 1983-1987 TOTAL	REPLACE-MENT 2/	GROWTH
TOTAL,ALL OCCUPATIONS	1494935	1528466	1615564	84129	50598	33531	302853	215755	87098
PROFESS,TECHN,& KINDRED WORKERS	281073	286529	302253	13472	8016	5456	49839	34115	15724
ENGINEERS	28093	28719	30247	1161	535	626	3821	2293	1526
AERO-ASTRONAUTIC ENGINEERS	2920	2989	3129	94	25	69	246	106	140
CHEMICAL ENGINEERS	807	828	874	38	17	21	120	74	46
CIVIL ENGINEERS	2561	2592	2741	121	90	31	531	382	149
ELECTRICAL ENGINEERS	7025	7211	7675	296	110	186	939	475	464
INDUSTRIAL ENGINEERS	2538	2589	2737	107	56	51	387	239	148
MECHANICAL ENGINEERS	7495	7663	8004	278	110	168	811	470	341
METALLURGICAL ENGINEERS	522	527	546	12	7	5	50	31	19
PETROLEUM ENGINEERS	18	18	19	0	0	0	3	2	1
OTHER ENGINEERS	4200	4294	4514	214	120	94	733	513	220
TRAFFIC ENGINEERS	164	162	168	2	4	-2	25	19	6
NUCLEAR ENGINEERS	52	53	53	2	1	1	6	6	0
ALL OTHER ENGINEERS	3984	4078	4293	209	115	94	703	488	215
LIFE & PHYSICAL SCIENTISTS	3447	3529	3765	155	73	82	553	317	236
AGRICULTURAL SCIENTISTS	135	135	136	8	8	0	34	33	1
LIFE SCIENTISTS	600	613	657	30	17	13	118	74	44
BIOLOGICAL SCIENTISTS	489	501	540	26	14	12	100	61	39
MEDICAL SCIENTISTS	111	112	117	4	3	1	18	13	5
CHEMISTS	1821	1876	2013	94	39	55	305	168	137
GEOLOGISTS	189	190	204	3	2	1	24	10	14
PHYSICISTS	355	361	377	11	5	6	38	22	16
LIFE,PHYSICAL SCIENTISTS,NEC	342	350	374	10	2	8	34	10	24
MATHEMATICAL SPECIALISTS	2217	2276	2422	122	63	59	423	277	146
ACTUARIES	714	735	780	37	16	21	115	70	45
MATHEMATICAL SCIENTISTS	318	324	350	13	7	6	61	35	26
MATHEMATICIANS	207	211	226	9	5	4	38	23	15
ALL OTHER MATH SCIENTISTS	111	113	124	4	2	2	23	12	11
STATISTICIANS	1185	1217	1292	72	40	32	247	172	75
ENGINEERING,SCIENCE TECHNS	25705	26339	27933	1059	425	634	3419	1825	1594
DRAFTERS	6530	6682	7049	282	130	152	918	551	367
ELECTRICAL,ELECTRONIC TECHNS	8824	9059	9686	336	101	235	1065	438	627
SOUND RECORDING & REPRO TECHN	13	13	14	0	0	0	1	0	1
ELECTRICAL & ELECTRONIC TECHN	8769	9004	9627	336	101	235	1059	436	623
BROADCAST TECHNICIANS	42	42	45	0	0	0	5	2	3
INDUSTRIAL ENGINEERING TECHNS	.326	339	352	19	6	13	38	25	13

NOTE: OCCUPATIONS WITH LESS THAN 10 WORKERS ARE NOT SHOWN BUT ARE INCLUDED WITHIN GROUP TOTALS. THEREFORE GROUP TOTALS MAY EXCEED THE SUM OF THEIR PARTS.

TABLE 13

OCCUPATIONAL EMPLOYMENT AND LABOR DEMAND 1/
STATEWIDE

OCCUPATIONAL TITLE	EMPLOYMENT 1982 ESTIMATED	EMPLOYMENT 1983 PROJECTED	EMPLOYMENT 1987 PROJECTED	JOB OPENINGS 1982-1983 TOTAL	JOB OPENINGS 1982-1983 REPLACE-MENT 2/	JOB OPENINGS 1982-1983 GROWTH	JOB OPENINGS 1983-1987 TOTAL	JOB OPENINGS 1983-1987 REPLACE-MENT 2/	JOB OPENINGS 1983-1987 GROWTH
EKG TECHNICIANS	289	300	333	19	8	11	72	39	33
EEG TECHNICIANS	89	91	103	4	2	2	24	12	12
PHARMACY HELPERS	145	150	165	11	6	5	41	26	15
LICENSED PRACTICAL NURSES	6919	7195	8042	601	325	276	2270	1423	847
DIETETIC TECHNICIANS	91	94	106	5	2	3	24	12	12
PHYSICAL THERAPY TECHNICIANS	94	97	108	6	3	3	25	14	11
ALL OTHER MED & DENT TECH	2536	2591	2793	132	77	55	537	335	202
TECHNICIANS,EX HEALTH OR S&E	5656	5792	6062	225	89	136	657	387	270
AIRPLANE PILOTS	531	549	581	22	4	18	51	19	32
AIR TRAFFIC CONTROLLERS	152	154	168	4	2	2	23	9	14
EMBALMERS	224	229	236	14	9	5	46	39	7
RADIO OPERATORS	105	105	111	3	3	0	19	13	6
TOOL PROGRAMERS,NUMERICAL CONT	271	278	288	10	3	7	26	16	10
OTHER TECHNS,EX HEALTH OR S&E	4373	4477	4678	172	68	104	492	291	201
MUSEUM TECHNICIANS,RESTORERS	15	16	18	1	0	1	3	1	2
ALL OTHER TECHNICIANS	3858	3966	4178	169	61	108	471	259	212
TECHNICAL ASSISTANTS,LIBRARY	500	494	481	1	7	-6	18	31	-13
COMPUTER SPECIALISTS	11464	11812	12681	476	128	348	1425	556	869
COMPUTER PROGRAMERS	6053	6236	6697	260	77	183	793	332	461
COMPUTER SYSTEMS ANALYSTS	5410	5576	5984	217	51	166	632	224	408
SOCIAL SCIENTISTS	2913	2963	3123	101	51	50	387	227	160
ECONOMISTS	1098	1119	1183	41	20	21	155	91	64
FINANCIAL ANALYSTS	690	710	761	33	13	20	110	59	51
ECONOMISTS	398	398	410	7	7	0	44	32	12
MEDIA ANALYSTS	10	11	12	1	0	1	1	0	1
PSYCHOLOGISTS	1191	1209	1259	35	17	18	121	71	50
SOCIOLOGISTS	40	41	45	1	0	1	7	3	4
URBAN & REGIONAL PLANNERS	244	248	269	11	7	4	52	31	21
OTHER SOCIAL SCIENTISTS	340	346	367	13	7	6	52	31	21
TEACHERS	57983	57385	55930	1143	1741	-598	5505	6960	-1455
ADULT EDUCATION TEACHERS	1532	1545	1573	64	51	13	237	209	28
COLLEGE & UNIVERSITY TEACHERS	9663	9562	9310	149	250	-101	753	1005	-252
TEACHERS,VOCATIONAL ED OR TRA	446	464	505	29	11	18	92	51	41
TEACHERS,COLLEGE	7077	6984	6759	91	184	-93	508	733	-225
GRADUATE ASSISTANTS	2047	2021	1956	27	53	-26	147	212	-65
EXTENSION SERVICE SPECIALISTS	93	92	89	1	2	-1	6	9	-3
ELEMENTARY SCHOOL TEACHERS	19907	19647	19014	419	679	-260	2062	2695	-633
PRESCHOOL,KINDERGTN TEACHERS	6263	6244	6207	176	195	-19	750	787	-37
SECONDARY SCHOOL TEACHERS	19170	18920	18310	251	501	-250	1384	1994	-610
TEACHERS,NEC	1445	1464	1514	84	65	19	320	270	50
DANCE INSTRUCTORS	119	125	141	11	5	6	40	24	16
ALL OTHER TEACHERS	1326	1339	1373	73	60	13	280	246	34

NOTE: OCCUPATIONS WITH LESS THAN 10 WORKERS ARE NOT SHOWN BUT ARE INCLUDED WITHIN GROUP TOTALS. THEREFORE GROUP TOTALS MAY EXCEED THE SUM OF THEIR PARTS.

TABLE 13

OCCUPATIONAL EMPLOYMENT AND LABOR DEMAND 1/
STATEWIDE

OCCUPATIONAL TITLE	EMPLOYMENT 1982 ESTIMATED	1983 PROJECTED	1987 PROJECTED	JOB OPENINGS 1982-1983 TOTAL	REPLACE-MENT 2/	GROWTH	JOB OPENINGS 1983-1987 TOTAL	REPLACE-MENT 2/	GROWTH
MECHANICAL ENGINEERING TECHNS	2270	2330	2467	105	45	60	329	192	137
SURVEYORS	1162	1165	1277	42	19	23	177	85	92
ENGINEERING,SCIENCE TECHNS,NEC	6586	6736	7096	276	124	152	892	534	358
COLORISTS TEXTILES	17	17	14	0	0	0	-2	1	-3
TRAFFIC TECHNICIANS	48	49	52	2	1	1	10	7	3
CIVIL ENGINEERING TECHNICIANS	252	257	277	9	4	5	40	20	20
ALL OTHER ENG TECH	3427	3490	3650	128	65	63	435	275	160
ALL OTHER SCI TECH	2836	2918	3096	136	54	82	409	231	178
MEDICAL WORKERS,EX TECHNS	34416	35666	39558	2404	1154	1250	8935	5043	3892
CHIROPRACTORS	44	43	52	2	3	-1	24	15	9
DENTISTS	1515	1574	1759	80	21	59	278	93	185
DIETITIANS	776	811	895	68	33	35	231	147	84
NURSES, PROFESSIONAL	20262	20989	23438	1536	809	727	5980	3531	2449
OPTOMETRISTS	211	206	245	3	8	-5	75	36	39
PHARMACISTS	1842	1900	1982	160	102	58	514	432	82
PHYSICIANS,MED & OSTEOPATH	6386	6616	7360	315	85	230	1118	374	744
PODIATRISTS	126	127	148	6	5	1	43	22	21
THERAPISTS	3237	3385	3662	236	88	148	669	392	277
OCCUPATIONAL THERAPISTS	340	367	390	36	9	27	65	42	23
MANUAL ARTS,MUSIC,REC THERAPI	642	675	755	51	18	33	160	80	80
SPEECH & HEARING CLINICIANS,E	599	608	617	25	16	9	77	68	9
PHYSICAL THERAPISTS	914	965	1065	76	25	51	214	114	100
CORRECTIVE THERAPISTS	14	15	17	1	0	1	3	1	2
INHALATION THERAPISTS	475	493	552	31	13	18	117	58	59
ALL OTHER THERAPISTS	253	262	266	16	7	9	33	29	4
HEALTH TECHNOLS & TECHNS	20019	20723	23086	1456	752	704	5696	3333	2363
CLINICAL LAB TECHNOLS,TECHNS	2469	2537	2865	136	68	68	636	308	328
MEDICAL LAB TECHNOLOGISTS	1196	1230	1388	66	34	32	309	151	158
MICROBIOLOGY TECHNOLOGISTS	14	13	16	-1	0	-1	4	1	3
CYTOTECHNOLOGISTS	86	87	99	3	2	1	22	10	12
MEDICAL LAB ASSISTANTS	1130	1166	1314	68	32	36	291	143	148
BLOOD BANK TECH SPECILAISTS	31	31	37	0	0	0	9	3	6
DENTAL HYGIENISTS & ASSISTANTS	4634	4611	5378	345	168	177	1309	742	567
DENTAL ASSISTANTS	2922	3034	3392	218	106	112	826	468	358
DENTAL HYGIENISTS	1711	1776	1985	127	62	65	483	274	209
HEALTH RECORD TECHNOLS,TECHNS	330	343	381	31	18	13	118	80	38
RADIOLOGIC TECHNOLS,TECHNS	1806	1873	2094	124	57	67	480	259	221
X-RAY TECHNICIANS	1592	1653	1847	112	51	61	423	229	194
RADIOLOGIC TECHS & NUC MED TE	214	220	247	12	6	6	57	30	27
OTHER HEALTH TECHNOLS,TECHNS	10779	11157	12366	819	441	378	3153	1944	1209
SURGICAL TECHNICIANS	585	607	679	40	18	22	152	80	72
PROSTHETISTS,ORTHOTISTS	28	29	33	1	0	1	7	3	4

NOTE: OCCUPATIONS WITH LESS THAN 10 WORKERS ARE NOT SHOWN BUT ARE INCLUDED WITHIN GROUP TOTALS. THEREFORE GROUP TOTALS MAY EXCEED THE SUM OF THEIR PARTS.

TABLE 13

OCCUPATIONAL EMPLOYMENT AND LABOR DEMAND 1/
STATEWIDE

OCCUPATIONAL TITLE	EMPLOYMENT 1982 ESTIMATED	1983 PROJECTED	1987 PROJECTED	JOB OPENINGS 1982-1983 TOTAL	REPLACE-MENT 2/	GROWTH	JOB OPENINGS 1983-1987 TOTAL	REPLACE-MENT 2/	GROWTH
WRITERS,ARTISTS,& ENTERTAINERS	14097	14460	15646	858	475	383	3236	2068	1168
ACTORS	201	211	236	15	5	10	48	23	25
ATHLETES & KINDRED WORKERS	665	699	780	47	13	34	142	61	81
ATHLETES	257	270	304	18	5	13	58	24	34
SPORTS INSTRUCTORS	382	401	446	27	9	19	80	35	45
UMPIRES	13	14	15	1	0	1	2	1	1
ATHLETIC TRAINERS	13	14	15	1	0	1	2	1	1
DESIGNERS	3099	3171	3319	165	93	72	544	396	148
DESIGNERS	3093	3165	3313	165	93	72	544	396	148
EDITORS & REPORTERS	3525	3577	3878	198	146	52	929	628	301
WRITERS &/OR EDITORS	2496	2540	2745	148	104	44	651	446	205
FILM EDITORS	10	10	11	0	0	0	2	1	1
REPORTERS & CORRESPONDENTS	1018	1027	1122	51	42	9	276	181	95
MUSICIANS	2579	2709	3029	232	102	130	774	454	320
MUSICIANS,INSTRUMENTAL	2488	2613	2921	225	100	125	746	438	308
SINGERS	74	78	88	6	2	4	23	13	10
MUSIC DIRECTORS	17	18	20	1	0	1	5	3	2
PAINTERS	1108	1130	1226	68	46	22	294	198	96
COMMERCIAL ARTISTS	1098	1120	1215	68	46	22	292	197	95
PAINTERS,ARTISTIC	10	10	11	0	0	0	2	1	1
PHOTOGRAPHERS	907	927	997	45	25	20	180	110	70
PHOTOGRAPHERS	858	878	946	45	25	20	176	108	68
TELEVISION CAMERA OPERATORS	49	49	51	0	0	0	4	2	2
PUBLIC RELATIONS SPECIALISTS	1372	1407	1505	76	41	35	274	176	98
RADIO,TV ANNOUNCERS	636	646	675	12	4	8	51	22	29
ANNOUNCERS	536	545	570	11	4	7	44	19	25
BROADCAST NEWS ANALYSTS	100	101	105	1	0	1	7	3	4
OTHER PROFESSIONAL & TECHN WKRS	75057	76840	81792	4313	2530	1783	15781	10829	4952
ACCOUNTANTS	15064	15408	16459	860	536	344	3334	2283	1051
ACCOUNTANTS & AUDITORS	14119	14454	15425	838	503	335	3112	2141	971
TAX EXAMINERS,COLLECTRS,REV A	821	826	891	34	29	5	188	123	65
TAX PREPARERS	124	128	143	8	4	4	34	19	15
ARCHITECTS	791	809	863	49	31	18	186	132	54
ARCHIVISTS & CURATORS	30	32	36	4	2	2	12	8	4
ARCHIVISTS	15	16	18	2	1	1	6	4	2
MUSEUM CURATORS	15	16	18	2	1	1	6	4	2
BUYERS & PURCHASING AGENTS	7077	7232	7609	421	266	155	1503	1126	377
PURCHASING AGENTS &/OR BUYERS	3147	3204	3349	134	77	57	469	324	145
MEDIA BUYERS	10	11	12	1	0	1	2	1	1
BUYERS,RETAIL &/OR WHOLSL TRA	3915	4012	4244	286	189	97	1033	801	232
CLERGY	4146	4359	4894	406	193	213	1392	857	535
DIRECTORS,REL ACT &/OR REL ED	108	113	127	11	6	5	42	28	14

NOTE: OCCUPATIONS WITH LESS THAN 10 WORKERS ARE NOT SHOWN BUT ARE INCLUDED WITHIN GROUP TOTALS. THEREFORE GROUP TOTALS MAY EXCEED THE SUM OF THEIR PARTS.

TABLE 13

OCCUPATIONAL EMPLOYMENT AND LABOR DEMAND 1/
STATEWIDE

OCCUPATIONAL TITLE	EMPLOYMENT 1982 ESTIMATED	1983 PROJECTED	1987 PROJECTED	JOB OPENINGS 1982-1983 TOTAL	REPLACE-MENT 2/	GROWTH	JOB OPENINGS 1983-1987 TOTAL	REPLACE-MENT 2/	GROWTH
FORESTERS	82	83	89	3	2	1	15	9	6
JUDGES	184	183	192	15	16	-1	77	68	9
JUDGES	151	150	156	12	13	-1	62	56	6
MAGISTRATES	33	33	36	3	3	0	15	12	3
LAWYERS & KINDRED WORKERS	4969	5117	5579	360	212	148	1385	923	462
LAW CLERKS	439	452	498	32	18	14	128	82	46
LAWYERS	3616	3727	4057	264	155	109	1002	672	330
PARALEGAL PERSONNEL	913	937	1023	63	39	24	255	169	86
LIBRARIANS	2380	2375	2394	107	112	-5	474	455	19
LIBRARIANS	2217	2214	2238	102	105	-3	449	425	24
AUDIO VISUAL SPECIALISTS	163	161	156	5	7	-2	25	30	-5
PERSONNEL,LABOR REL SPECIALISTS	4433	4523	4788	205	115	90	754	489	265
PERSONNEL,LABOR REL SPECIALIS	3561	3635	3818	167	93	74	575	392	183
EMPLOYMENT INTERVIEWERS	872	887	969	37	22	15	179	97	82
RECREATION WORKERS	3126	3226	3553	195	95	100	740	413	327
GROUP RECREATION WORKERS	2926	3016	3318	179	89	90	686	386	302
CAMP DIRECTORS	200	210	235	16	6	10	52	27	25
SOCIAL WORKERS	4550	4708	5107	311	153	158	1064	665	399
CASEWORKERS	3338	3468	3756	243	113	130	778	490	288
WELFARE INVESTIGATORS	315	313	327	8	10	-2	57	43	14
COMMUNITY ORGANIZATION WORKER	896	926	1023	60	30	30	229	132	97
VOCATIONAL,EDUC COUNSELORS	3255	3235	3228	73	93	-20	370	377	-7
ALL OTHER PROFESSIONAL WORKERS	24858	25433	26869	1273	698	575	4432	2996	1436
SAFETY INSPECTORS	163	167	177	11	7	4	43	33	10
APPRAISERS	73	73	79	8	5	3	28	22	6
COST ESTIMATORS	1369	1373	1394	47	43	4	201	180	21
CREDIT ANALYSTS,CHIEF	122	125	134	6	3	3	25	16	9
CREDIT ANALYSTS	281	288	309	16	9	7	59	38	21
TITLE EXAMINERS &/OR ABSTRACT	72	75	82	5	2	3	17	10	7
ESTIMATORS,PRINTING SERVICES	73	73	80	2	2	0	16	9	7
UNDERWRITERS	3244	3335	3547	214	123	91	739	527	212
INVESTIGATORS,INSURANCE	342	352	375	19	9	10	62	39	23
APPRAISERS,REAL ESTATE	303	315	342	30	23	7	126	99	27
ASSESSORS	332	308	336	30	24	6	131	103	28
CLAIMS TAKERS,UNEMP BENEFITS	435	430	444	8	13	-5	71	57	14
BROKER'S FL REPS,SEC TRADRS,&	119	122	132	6	3	3	26	16	10
SPECIAL AGENTS,INSURANCE	136	139	149	7	4	3	27	17	10
TRAVEL AGTS,TR ACCOM APPRAISE	1607	1713	1869	173	67	106	453	297	156
CLAIM EXAMINERS,PRPTY/CSLTY I	535	550	585	29	14	15	96	61	35
BLDG INSPECTORS,FIRE INSURANC	100	103	109	7	4	3	26	20	6
ALL OTHER PROFESSIONAL	15368	15880	16714	655	343	312	2286	1452	834
MANAGERS,OFFICIALS,PROPRIETORS	133021	136232	144137	7934	4723	3211	27973	20068	7905

NOTE: OCCUPATIONS WITH LESS THAN 10 WORKERS ARE NOT SHOWN BUT ARE INCLUDED WITHIN GROUP TOTALS. THEREFORE GROUP TOTALS MAY EXCEED THE SUM OF THEIR PARTS.

TABLE 13

OCCUPATIONAL EMPLOYMENT AND LABOR DEMAND 1/
STATEWIDE

OCCUPATIONAL TITLE	EMPLOYMENT 1982 ESTIMATED	1983 PROJECTED	1987 PROJECTED	JOB OPENINGS 1982-1983 TOTAL	REPLACE-MENT 2/	GROWTH	JOB OPENINGS 1983-1987 TOTAL	REPLACE-MENT 2/	GROWTH
FILE CLERKS	5232	5381	5791	367	218	149	1342	932	410
PERSONNEL CLERKS	1360	1385	1456	81	56	25	308	237	71
ADMISSIONS EVALUATORS	87	86	83	2	3	-1	11	14	-3
CLAIM ADJUSTERS	1190	1222	1302	68	36	32	239	159	80
CLAIM EXAMINERS,INSURANCE	492	506	538	32	18	14	111	79	32
CLAIM ADJUSTERS	698	716	764	36	18	18	128	80	48
LIBRARY ASSISTANTS	3167	3186	3258	150	131	19	611	539	72
MAIL CARRIERS,POSTAL SERVICE	7775	7697	7636	51	129	-78	461	522	-61
MAIL HANDLERS,EX POSTAL SERVICE	1082	1107	1192	67	42	25	264	179	85
MAIL CLERKS	1082	1107	1192	67	42	25	264	179	85
MESSENGERS & OFFICE HELPERS	772	789	851	62	45	17	256	194	62
MESSENGERS,BANK	72	74	80	6	4	2	24	18	6
MESSENGERS	700	715	771	56	41	15	232	176	56
METER READERS,UTILITIES	388	398	398	14	4	10	19	19	0
PAYROLL,TIME KEEPING CLERKS	3502	3574	3728	227	155	72	803	649	154
POSTAL CLERKS	1603	1588	1585	28	43	-15	171	174	-3
PROOFREADERS	413	416	457	22	19	3	128	87	41
PROOFREADERS,COMPOSED COPY	399	402	441	22	19	3	123	84	39
PROOFREADERS, CLERICAL	14	14	16	0	0	0	5	3	2
RECEPTIONISTS	10438	10755	11677	788	471	317	2945	2023	922
RECEPTIONISTS	5898	6097	6654	466	267	199	1707	1150	557
SWITCHED OPS/RECEPTIONISTS	4401	4511	4858	308	198	110	1192	845	347
TRAVEL COUNSELORS,AUTO CLUB	138	147	165	15	6	9	46	28	18
SHIPPING,RECEIVING CLERKS	12569	12820	13490	694	443	251	2549	1879	670
SHIPPING & RECEIVING CLERKS	6268	6408	6752	361	221	140	1284	940	344
SHIPPING PACKERS	6294	6404	6730	332	222	110	1264	938	326
STATISTICAL CLERKS	5225	5349	5656	329	205	124	1189	882	307
GAS DISPATCHERS	32	34	34	3	1	2	5	5	0
ACTUARIAL CLERKS	485	499	529	33	19	14	112	82	30
BROKERAGE CLERKS	223	229	248	14	8	6	57	38	19
MARGIN CLERKS	28	29	31	2	1	1	6	4	2
RATERS	1782	1834	1951	123	71	52	422	305	117
STATISTICAL CLERKS	1584	1611	1688	90	63	27	343	266	77
WORKSHEET CLERKS	361	371	393	24	14	10	83	61	22
COURT CLERKS	224	222	230	6	8	-2	44	36	8
INSURANCE CHECKERS	500	514	546	34	20	14	117	85	32
STOCK CLERKS,STORE KEEPERS	15358	15720	16600	872	510	362	3048	2168	880
PROCUREMENT CLERKS	853	873	916	48	28	20	163	120	43
STOCK CLERKS,STOCKRM,WAREHS,E	14505	14847	15684	824	482	342	2885	2048	837
TEACHERS AIDES,EX MONITORS	5581	5530	5404	64	115	-51	334	460	-126
TELEGRAPH OPERATORS	45	46	47	3	2	1	9	8	1
TELEPHONE OPERATORS	6382	6539	7038	399	242	157	1533	1034	499

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TABLE 13

OCCUPATIONAL EMPLOYMENT AND LABOR DEMAND 1/
STATEWIDE

OCCUPATIONAL TITLE	EMPLOYMENT 1982 ESTIMATED	1983 PROJECTED	1987 PROJECTED	JOB OPENINGS 1982-1983 TOTAL	REPLACE-MENT 2/	GROWTH	JOB OPENINGS 1983-1987 TOTAL	REPLACE-MENT 2/	GROWTH
SALES MANAGERS	4878	5005	5299	255	128	127	839	545	294
SALES MANAGERS,RETAIL TRADE	4878	5005	5299	255	128	127	839	545	294
ADMINISTRATORS,PUB INSPECTORS	1957	1959	2070	92	90	2	492	381	111
CONSTRUCTION INSPECTORS,PUB AD	423	430	468	33	26	7	149	111	38
INSPECTORS,EX CONST,PUB ADM	1304	1302	1375	49	51	-2	289	216	73
POSTMASTERS & MAIL SUPERINTS	230	227	227	10	13	-3	54	54	0
OTHER MANAGERS,OFFICIALS,PROPS	126185	129267	136767	7587	4505	3082	26642	19142	7500
RAILROAD CONDUCTORS	146	146	151	5	5	0	26	21	5
RESTAURANT,CAFE,& BAR MGRS	4765	4924	5328	326	167	159	1122	718	404
OTHER MGRS,ADMINISTRATORS	121274	124197	131288	7256	4333	2923	25494	18403	7091
MANAGERS,STORE	12076	12400	12954	756	432	324	2380	1826	554
MANAGERS,AUTO SERVICE DEPT	738	759	802	47	26	21	155	112	43
MANAGERS,AUTO PARTS DEPT	716	734	774	43	25	18	148	108	40
WHOLESALERS	3084	3149	3419	175	110	65	743	473	270
ALL OTHER MANAGERS	104657	107153	113336	6236	3740	2496	22067	15884	6183
SALES WORKERS	95413	97866	103563	6393	3940	2453	22343	16646	5697
AUCTIONEERS	35	37	42	2	0	2	7	2	5
INSURANCE AGENTS,BROKERS,ETC	3057	3142	3350	178	93	85	606	398	208
SALES AGENTS,SALES REPS,INSUR	3052	3137	3344	178	93	85	605	398	207
REAL ESTATE AGENTS,BROKERS	1750	1792	1954	143	101	42	599	437	162
BUSINESS BROKERS	66	68	74	5	3	2	22	16	6
REAL ESTATE BROKERS	262	269	293	22	15	7	89	65	24
SALES AGENTS,SALES REPS,REAL	1422	1455	1587	116	63	33	488	356	132
STOCK & BOND SALES AGENTS	1247	1278	1383	71	40	31	280	175	105
BROKER & MARKET OPERATORS,COM	72	74	80	4	2	2	16	10	6
PORTFOLIO MANAGERS	49	49	53	1	1	0	10	6	4
SALES AGENTS,SALES REPS,SECUR	1126	1155	1250	66	37	29	254	159	95
OTHER SALES WORKERS	89323	91616	96832	5999	3706	2293	20850	15634	5216
SALES CLERKS	47079	48352	50737	3227	1954	1273	10601	8216	2385
VENDORS	49	51	59	4	2	2	17	9	8
CONTRIBUTION SOLICITORS	220	233	262	24	11	13	79	50	29
CRATING & MOVING ESTIMATORS	132	140	153	13	5	8	37	24	13
ALL OTHER SALES WORKERS	41842	42839	45620	2731	1734	997	10116	7335	2781
CLERICAL WORKERS	324079	331590	351939	19360	11849	7511	70790	50441	20349
STENOS,TYPISTS,SECRETARIES	67251	68769	73138	4270	2752	1518	16035	11666	4369
SECRETARIES	44496	45493	48347	2894	1897	997	10890	8036	2854
STENOGRAPHERS	4469	4577	4865	280	172	108	1019	731	288
TYPISTS	16286	18699	19925	1096	683	413	4125	2899	1226
OFFICE MACHINE OPERATORS	17951	18501	19959	987	437	550	3353	1895	1458
BOOKKEEPING,BILLING OPERATORS	3513	3594	3850	187	106	81	713	457	256
BOOKKEEPING/BILLING MACH OPS	2646	2705	2892	139	80	59	531	344	187
PROOF MACHINE OPERATORS	759	779	839	43	23	20	159	99	60

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TABLE 13

OCCUPATIONAL EMPLOYMENT AND LABOR DEMAND 1/
STATEWIDE

OCCUPATIONAL TITLE	EMPLOYMENT 1982 ESTIMATED	EMPLOYMENT 1983 PROJECTED	EMPLOYMENT 1987 PROJECTED	JOB OPENINGS 1982-1983 TOTAL	JOB OPENINGS 1982-1983 REPLACEMENT 2/	JOB OPENINGS 1982-1983 GROWTH	JOB OPENINGS 1983-1987 TOTAL	JOB OPENINGS 1983-1987 REPLACEMENT 2/	JOB OPENINGS 1983-1987 GROWTH
TRANSIT CLERKS	107	110	119	6	3	3	23	14	9
COMPUTER,PERIPHERAL EQUIP OPS	5832	6035	6524	273	70	203	794	305	489
COMPUTER OPERATORS	5324	5517	5980	257	64	193	743	280	463
PERIPHERAL EDP EQPT OPERATORS	508	518	544	16	6	10	51	25	26
DUPLICATING MACHINE OPERATORS	834	849	896	42	27	15	163	116	47
KEYPUNCH OPERATORS	5731	5940	6480	377	168	209	1275	735	540
TABULATING MACHINE OPERATORS	68	69	75	2	1	1	11	5	6
ALL OTHER OFFICE MACHINE OPS	1971	2012	2132	106	65	41	397	277	120
OTHER CLERICAL WORKERS	238876	244319	258841	14103	8660	5443	51402	36880	14522
BANK TELLERS	10317	10590	11402	606	333	273	2249	1437	812
NEW ACCOUNTS TELLERS	850	873	939	50	27	23	184	118	66
TELLERS	9466	9717	10463	557	306	251	2065	1319	746
BOOKKEEPERS	27622	28536	30396	1885	1171	714	6814	4954	1860
ACCOUNTING CLERKS	12007	12297	13046	795	505	290	2879	2130	749
BOOKKEEPERS,HAND	15814	16239	17350	1091	666	425	3935	2824	1111
CASHIERS	22142	22731	23994	1377	788	589	4601	3338	1263
ELIGIBILITY WORKERS,WELFARE	549	544	567	19	24	-5	123	100	23
CLERICAL SUPERVISORS	9286	9511	10137	512	287	225	1844	1218	626
COLLECTORS,BILL & ACCOUNT	1266	1300	1393	87	53	34	322	229	93
COUNTER CLERKS,EX FOOD	6194	6340	6772	423	277	146	1616	1184	432
CAR RENTAL CLERKS	271	277	304	18	12	6	79	52	27
DESK CLERKS	712	736	773	56	32	24	172	135	37
ORDER CLERKS	4617	4719	5024	308	206	102	1180	875	305
CIRCULATION CLERKS	161	163	179	9	7	2	46	30	16
CLASSIFIED AD CLERKS,NEWSPAPE	72	73	80	4	3	1	20	13	7
TELEPHONE AD TAKERS,NEWSPAPER	177	178	195	8	7	1	50	33	17
DESK CLERKS,BOWLING FLOOR	184	194	217	20	10	10	69	46	23
DISPATCHERS,STARTERS,VEHICLE	1634	1682	1798	115	67	48	407	291	116
DISPATCHERS,AIRPLANE	38	40	44	3	1	2	11	7	4
DISPATCHERS,POLICE,FIRE,AMBUL	493	502	546	29	20	9	131	87	44
DISPATCHERS,VEHICLE,SERV OR W	1103	1140	1208	83	46	37	265	197	68
SURVEY WORKERS	400	410	455	23	13	10	103	58	45
ESTIMATORS,INVESTIGATORS,NEC	3678	3775	4041	212	115	97	773	507	266
CREDIT AUTHORIZERS	209	214	225	11	6	5	39	28	11
ADJUSTMENT CLERKS	548	564	602	33	17	16	114	76	38
CHECKING CLERKS	463	475	512	26	14	12	101	64	37
CLAIMS CLERKS	1945	2001	2130	119	63	56	398	269	129
CREDIT REPORTERS	354	362	397	19	11	8	84	49	35
CUSTOMER SERV REPS,PRINT & PU	131	132	146	5	4	1	32	18	14
BOX ESTIMATORS	27	27	29	0	0	0	5	3	2
PRODUCTION CLERKS	4388	4495	4712	212	105	107	663	446	217
FILE CLERKS	6679	6852	7330	450	277	173	1661	1183	478

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TABLE 13

OCCUPATIONAL EMPLOYMENT AND LABOR DEMAND 1/
STATEWIDE

OCCUPATIONAL TITLE	EMPLOYMENT 1982 ESTIMATED	EMPLOYMENT 1983 PROJECTED	EMPLOYMENT 1987 PROJECTED	JOB OPENINGS 1982-1983 TOTAL	JOB OPENINGS 1982-1983 REPLACEMENT 2/	JOB OPENINGS 1982-1983 GROWTH	JOB OPENINGS 1983-1987 TOTAL	JOB OPENINGS 1983-1987 REPLACEMENT 2/	JOB OPENINGS 1983-1987 GROWTH
SWITCHBOARD OPERATORS	4435	4571	4987	305	169	136	1144	728	416
CENTRAL OFFICE OPERATORS	1947	1968	2051	94	73	21	389	306	83
TICKET,STATION,EXPRESS AGENTS	1830	1947	2118	167	50	117	401	230	171
STATION AGENTS	10	10	10	0	0	0	1	1	0
TRAFFIC AGENTS	176	187	203	16	5	11	38	22	16
RESERVATION AGENTS	1340	1428	1557	126	38	88	299	170	129
TRANSPORTATION AGENTS	66	71	77	6	1	5	14	8	6
TICKET AGENTS	238	251	271	19	6	13	49	29	20
WEIGHERS	458	466	490	24	16	8	94	70	24
ALL OTHER CLERICAL WORKERS	66732	68391	72904	4151	2492	1659	15172	10659	4513
LOAN CLOSERS	235	239	258	12	8	4	56	37	19
DIVIDEND CLERKS	14	14	16	0	0	0	4	2	2
COIN MACH OPS/CURRENCY SORTER	80	82	88	5	3	2	18	12	6
CANCELLATION CLERKS	45	47	49	3	1	2	9	7	2
MEDIA CLERKS/ESTIMATORS/BILLE	78	80	88	4	2	2	20	12	8
GENERAL CLERKS,OFFICE	43682	44671	47637	2627	1638	989	9929	6963	2966
SECURITIES CASHIERS,EXCHANGE	37	38	42	2	1	1	10	6	4
POLICY CHANGE CLERKS	900	924	985	57	33	24	205	144	61
REAL ESTATE CLERKS	203	207	225	11	7	4	50	32	18
SAFE DEPOSIT CLERKS	176	180	195	10	6	4	43	28	15
STATEMENT CLERKS	636	653	703	40	23	17	152	102	50
SERVICE CLERKS	372	382	404	23	13	10	81	59	22
TITLE SEARCHERS	11	11	12	0	0	0	2	1	1
TRAFFIC CLERKS	58	58	61	2	2	0	11	8	3
TRANSFER CLERKS	28	29	31	2	1	1	6	4	2
MARKING CLERKS TRADE	494	508	535	32	18	14	105	78	27
PROTECTIVE SIGNAL OPERATORS	102	105	116	6	3	3	27	16	11
SHADE TICKET MARKERS	11	11	11	0	0	0	1	1	0
RATE CLERKS,FREIGHT	129	137	149	12	4	8	33	21	12
TOWN CLERKS	203	208	229	16	11	5	69	48	21
CREDIT CLERKS,BANK &/OR INS	582	598	643	37	21	16	138	93	45
MORTGAGE CLOSING CLERKS	317	324	349	18	11	7	75	50	25
SORTING CLERKS,BANK	103	106	116	6	3	3	26	16	10
INSURANCE CLERKS	264	272	289	17	9	8	59	42	17
INSURANCE CLERKS,MEDICAL	554	575	645	41	20	21	162	92	70
ALL OTHER OFFICE CLERICAL	14341	14689	15628	886	538	348	3226	2287	939
ALL OTHER PLANT CLERICAL	3056	3222	3376	282	116	166	651	497	154
CRAFTS & KINDRED WORKERS	167146	169830	177005	7409	4725	2684	27295	20120	7175
CONSTRUCTION CRAFTS WKRS	36878	37055	37783	1181	1004	177	4919	4191	728
CARPENTERS	9534	9579	9759	335	290	45	1385	1205	180
CARPENTERS	9511	9556	9735	335	290	45	1382	1203	179
PICTURE FRAMERS	23	23	24	0	0	0	3	2	1

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OCCUPATIONAL EMPLOYMENT AND LABOR DEMAND 1/
STATEWIDE

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BRICKMASONS & STONEMASONS	1410	1406	1418	28	32	-4	149	137	12
BRICKLAYERS	1279	1278	1287	29	30	-1	134	125	9
STONE MASONS	63	62	63	0	1	-1	7	6	1
REFRACTORY MATERIALS REPAIRER	68	66	66	-1	1	-2	8	6	2
LOGGING TRACTOR OPERATORS	11	11	12	0	0	0	1	0	1
CEMENT & CONCRETE FINISHERS	1638	1634	1645	26	30	-4	136	125	11
CEMENT MASONS	1548	1546	1559	27	29	-2	133	120	13
CONCRETE RUBBERS	65	64	61	0	1	-1	1	4	-3
TERRAZZO WORKERS	24	23	24	-1	0	-1	2	1	1
ELECTRICIANS	7921	7979	8162	259	201	58	1020	837	183
ELECTRICIANS	7893	7951	8131	259	201	58	1014	834	180
STREETLIGHT REPAIRERS,SERVICE	28	28	31	0	0	0	6	3	3
EXCAVATING,GRADING MACH OPS	4310	4314	4358	70	66	4	320	276	44
CONCRETE MIXER OPERATORS	14	14	14	0	0	0	0	0	0
FINE-GRADERS	13	13	13	0	0	0	0	0	0
HEAVY EQUIPMENT OPERATORS	4129	4136	4182	71	64	7	313	267	46
BATCH PLANT OPERATORS	84	81	76	-2	1	-3	0	5	-5
BALLAST CLEAN MACH OPERATORS,	66	66	68	1	1	0	6	4	2
FLOOR SANDING MACHINE OPERATORS	16	16	16	0	0	0	1	1	0
PAINTERS,CONSTRUCTION,MAINT	3701	3723	3838	179	157	22	770	655	115
PAPERHANGERS	64	63	64	2	3	-1	14	13	1
PLASTERERS	54	53	54	1	2	-1	9	8	1
PLASTERERS	54	53	54	1	2	-1	9	8	1
PLUMBERS & PIPEFITTERS	5636	5683	5831	230	183	47	910	762	148
PLUMBERS &/OR PIPEFITTERS	5634	5681	5829	230	183	47	910	762	148
ROOFERS	1349	1347	1357	21	23	-2	107	97	10
STRUCTURAL STEEL WORKERS	770	780	792	22	12	10	64	52	12
TILE SETTERS	461	463	474	7	5	2	34	23	11
TILE SETTERS	131	131	134	1	1	0	9	6	3
CEILING TILE INSTALLRS,FLR LA	330	332	340	6	4	2	25	17	8
BLUE COLLAR WKR SUPVSRS	19618	19954	20780	872	536	336	3085	2259	826
SUPERVISORS,NONWORKING	19616	19952	20778	872	536	336	3085	2259	826
METALWKG CRAFTS WKRS,EX MECH	25676	26095	26966	1138	719	419	3929	3058	871
BLACKSMITHS	21	21	22	1	1	0	6	5	1
BOILERMAKERS	129	130	140	5	4	1	31	21	10
HEAT TREATERS,ANNEALERS,ETC	1226	1230	1269	47	43	4	221	182	39
FORGE & HAMMER OPERATORS	585	591	599	23	17	6	83	75	8
FORGING PRESS OPERATORS	213	214	217	7	6	1	30	27	3
HEADER OPERATORS	372	377	382	16	11	5	53	48	5
JOB & DIE SETTERS,METAL	3996	4077	4197	188	107	81	576	456	120
DIE SETTERS	128	131	134	6	3	3	17	14	3
MACHINE TOOL SETTERS,METALWRK	2957	3024	3130	147	80	67	447	341	106

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OCCUPATIONAL EMPLOYMENT AND LABOR DEMAND 1/
STATEWIDE

OCCUPATIONAL TITLE	EMPLOYMENT 1982 ESTIMATED	EMPLOYMENT 1983 PROJECTED	EMPLOYMENT 1987 PROJECTED	JOB OPENINGS 1982-1983 TOTAL	JOB OPENINGS 1982-1983 REPLACEMENT 2/	JOB OPENINGS 1982-1983 GROWTH	JOB OPENINGS 1983-1987 TOTAL	JOB OPENINGS 1983-1987 REPLACEMENT 2/	JOB OPENINGS 1983-1987 GROWTH
PUNCH PRESS SETTERS,METAL	664	676	686	30	18	12	85	75	10
SHEAR &/OR SLITTER SETTERS	88	88	90	2	2	0	11	9	2
SETTERS,PLASTIC MOLDING MACHI	155	155	154	4	4	0	16	17	-1
MACHINISTS	6029	6148	6398	294	175	119	990	740	250
LAYOUT MARKERS,METAL	245	251	258	13	7	6	37	30	7
MACHINISTS	5784	5897	6140	281	168	113	953	710	243
MILLWRIGHTS	1412	1430	1489	52	34	18	203	144	59
MOLDERS,METAL	618	609	623	4	13	-9	78	64	14
MOLDERS,BENCH &/OR FLOOR	213	212	219	4	5	-1	30	23	7
MOLDERS,MACHINE(METAL)	331	326	334	3	8	-5	43	35	8
SHELL MOLD/SH CORE MACH OPERA	32	31	32	-1	0	-1	4	3	1
METAL MOLD MAKERS,REPAIRERS	35	33	31	-2	0	-2	1	3	-2
PATTERN & MODEL MAKERS	195	198	204	10	7	3	41	35	6
PATTERNMAKERS,METAL	44	46	46	3	1	2	8	8	0
PATTERNMAKERS,WOOD	148	149	155	7	6	1	33	27	6
ROLLERS & FINISHERS,METAL	539	519	533	-2	18	-20	90	76	14
FORGING/STRAIGHTENING ROLL OP	61	59	60	0	2	-2	9	8	1
ROLLING MILL OPS/ATTENDANTS	293	282	290	-1	10	-11	50	42	8
ROLLING MILL OPERATOR HELPERS	169	162	167	-1	6	-7	29	24	5
SHEET METAL WORKERS,TINSMITHS	4085	4139	4250	147	93	54	498	387	111
TOOLMAKERS & DIEMAKERS	6839	7000	7239	368	207	161	1112	873	239
TOOL & DIE MAKERS	6777	6939	7176	368	206	162	1103	866	237
DIE SINKERS	61	61	63	1	1	0	9	7	2
MECHS,REPAIRERS,INSTALLERS	30555	31292	33109	1444	707	737	4864	3047	1817
AIR COND,HEATING,REFRIG MECHS	2889	2950	3084	132	71	61	435	301	134
AIRCRAFT MECHANICS	843	866	916	40	17	23	125	73	52
AUTO SEAT COVER,TOP INSTALLERS	74	76	87	3	1	2	17	6	11
AUTO BODY REPAIRERS	1918	1979	2183	90	29	61	332	128	204
AUTO MECHANICS	11234	11508	12289	517	213	304	1698	917	781
AUTOMOTIVE MECHANICS	11130	11432	12209	514	212	302	1688	911	777
AUTO REPAIR SERVICE ESTIMATOR	74	76	80	3	1	2	10	6	4
DATA PROCESSING MACH MECHANICS	73	74	75	1	0	1	2	1	1
FARM EQUIPMENT MECHANICS	48	51	54	4	1	3	7	4	3
HEAVY EQUIP MECHS,INCL DIESEL	5836	5895	6094	256	167	89	910	711	199
ELEVATOR INSTALLERS/REPAIRERS	133	137	146	7	3	4	25	16	9
ENGINEERING EQUIPMT MECHANICS	514	519	546	20	15	5	90	63	27
HYDROELECTRIC MACHINE MECHS,E	223	227	228	10	6	4	28	27	1
MARINE MECHANICS/REPAIRERS	193	204	220	16	5	11	41	25	16
MAINTENANCE MECHANICS	4460	4524	4686	195	131	64	712	550	162
TREATMENT PLANT MECHANICS	76	78	84	4	2	2	15	9	6
KNITTING MACHINE FIXERS	54	54	46	1	1	0	-3	5	-8
MACHINE ADJUSTERS	10	10	10	0	0	0	1	1	0

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TABLE 13

OCCUPATIONAL EMPLOYMENT AND LABOR DEMAND 1/
STATEWIDE

OCCUPATIONAL TITLE	EMPLOYMENT 1982 ESTIMATED	EMPLOYMENT 1983 PROJECTED	EMPLOYMENT 1987 PROJECTED	JOB OPENINGS 1982-1983 TOTAL	JOB OPENINGS 1982-1983 REPLACEMENT 2/	JOB OPENINGS 1982-1983 GROWTH	JOB OPENINGS 1983-1987 TOTAL	JOB OPENINGS 1983-1987 REPLACEMENT 2/	JOB OPENINGS 1983-1987 GROWTH
SECTION REPAIRERS & SETTERS	139	136	124	3	4	-1	1	15	-14
HOUSEHOLD APPLIANCE MECHANICS	714	735	774	35	14	21	103	64	39
GAS & ELEC APPLIANCE REPAIRER	334	346	371	19	7	12	57	32	25
HOUSEHOLD APPLIANCE INSTALLER	154	158	167	7	3	4	23	14	9
WATER METER INSTALLERS	31	31	34	0	0	0	5	2	3
HOUSEHOLD APPLIANCE REPAIRERS	184	189	189	9	4	5	16	16	0
LOOM FIXERS	95	94	82	6	7	-1	16	28	-12
OFF MACH SERVICERS/CASH REG SER	332	339	368	13	6	7	59	30	29
RADIO,TELEVISION REPAIRERS	532	551	593	30	11	19	89	47	42
RAILROAD CAR SHOP REPAIRERS	129	129	133	3	3	0	20	16	4
SIGNAL MAINTAINERS	36	36	37	1	1	0	5	4	1
CAR REPAIRERS	93	93	96	2	2	0	15	12	3
OTHER MECHANICS & REPAIRERS	5895	6042	6372	314	167	147	1051	721	330
DRAPERY HANGERS	18	18	19	0	0	0	3	2	1
ELECTRIC MOTOR REPAIRERS	302	314	349	21	9	12	74	39	35
ELECTRICAL INSTRUMENT REPAIRE	30	31	33	1	0	1	5	3	2
LAUNDRY MACHINE MECHANICS	37	43	44	7	1	6	6	5	1
LOCKSMITHS	74	76	84	4	2	2	17	9	8
COIN MACHINE SERVICERS,REPAIR	207	212	218	11	6	5	31	25	6
SEWING MACHINE MECHANICS	77	75	72	0	2	-2	5	8	-3
PROTECTIVE SIGNAL INST/REPAIR	181	186	206	6	1	5	28	8	20
INSTRUMENT REPAIRERS	841	862	903	46	25	21	147	106	41
DIESEL MECHANICS	1353	1392	1481	79	40	39	260	171	89
ELECTROMEDICAL EQUIPMT REPAIR	69	72	80	5	2	3	17	9	8
PINSETTER MECHANICS,AUTOMATIC	146	155	174	11	4	7	38	19	19
SIGN ERECTORS	30	31	34	1	0	1	5	2	3
ALL OTHER MECHANICS & REPAIR	2518	2564	2664	121	75	46	415	315	100
PRINTING TRADE CRAFTS WKRS	8744	8826	9613	321	239	82	1846	1059	787
BOOKBINDERS	1818	1832	2012	70	56	14	433	253	180
SETTERS,BINDERY MACHINES	84	84	93	1	1	0	16	7	9
BOOKBINDERS,HAND	62	63	69	2	1	1	13	7	6
BOOKBINDERS,MACHINE	308	311	342	12	9	3	70	39	31
BINDERY WORKERS,ASSEMBLY	491	495	543	20	16	4	120	72	48
BINDERY WORKERS,STITCHING	161	162	177	6	5	1	38	23	15
ALL OTHER BINDERY WORKERS	712	717	788	29	24	5	176	105	71
COMPOSITORS & TYPESETTERS	2085	2100	2293	98	83	15	552	359	193
ENGRAVERS,EX PHOTOENGRAVERS	228	234	239	13	7	6	36	31	5
ETCHERS &/OR ENGRAVERS	226	232	238	13	7	6	37	31	6
PHOTOENGRAVERS,LITHOGRAPHERS	1217	1227	1347	34	24	10	231	111	120
STRIPPERS PRINTING	435	439	481	13	9	4	82	40	42
CAMERA OPERATORS,PRINTING	467	470	517	12	9	3	89	42	47
PHOTOENGRAVERS	315	318	349	9	6	3	60	29	31

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TABLE 13

OCCUPATIONAL EMPLOYMENT AND LABOR DEMAND 1/
STATEWIDE

OCCUPATIONAL TITLE	EMPLOYMENT 1982 ESTIMATED	1983 PROJECTED	1987 PROJECTED	JOB OPENINGS 1982-1983 TOTAL	REPLACE-MENT 2/	GROWTH	JOB OPENINGS 1983-1987 TOTAL	REPLACE-MENT 2/	GROWTH
PRESS & PLATE PRINTERS	3392	3429	3717	106	69	37	593	305	288
PRESS OPERATORS,PLATE PRINTER	857	873	913	34	18	16	117	77	40
OFFSET LITHOGRAPHIC PRESS OPS	1537	1550	1700	45	32	13	290	140	150
PLATEMAKERS	287	290	318	9	6	3	54	26	28
FLEXOGRAPHIC PRESS OPERATORS	56	57	63	2	1	1	11	5	6
LETTER PRESS OPERATORS	561	565	620	15	11	4	106	51	55
LETTERSET PRESS OPERATORS	20	20	21	0	0	0	2	1	1
STEEL DIE PRESS OPERATORS	52	52	58	1	1	0	10	4	6
PROOF PRESS OPERATORS	13	13	15	0	0	0	3	1	2
TRANSP, PUB UTIL CRAFT WKRS	4326	4383	4525	104	47	57	355	213	142
ELEC POWER LINE INST,REPAIRERS	1627	1656	1687	42	13	29	86	55	31
CABLE SPLICERS	500	507	524	11	4	7	34	17	17
LINE INSTALLERS,REPAIRERS	1119	1140	1154	30	9	21	52	38	14
LOCOMOTIVE ENGINEERS	203	203	211	7	7	0	41	33	8
YARD ENGINEERS	58	58	60	2	2	0	11	9	2
HOSTLERS	25	25	26	1	1	0	5	4	1
LOCOMOTIVE ENGINEERS	120	120	125	4	4	0	25	20	5
LOCOMOTIVE ENGINEER HELPERS	37	37	38	1	1	0	8	7	1
POWER STATION OPERATORS	78	80	81	5	3	2	14	13	1
TELEPHONE INSTALLERS,REPAIRERS	2380	2406	2507	49	23	26	206	105	101
INSTALLERS,REPAIRERS,SEC MAIN	1338	1353	1409	29	14	15	116	60	56
FRAME WIRERS	128	129	134	2	1	1	10	5	5
CENTRAL OFFICE REPAIRERS	744	752	784	15	7	8	65	33	32
TROUBLE LOCATORS,TEST DESK	166	168	175	3	1	2	14	7	7
OTHER CRAFTS,KINDRED WORKERS	41346	42223	44226	2350	1473	877	8296	6293	2003
BAKERS	986	1013	1054	65	38	27	206	165	41
FOOD SHAPERS,HAND	170	175	177	11	6	5	30	28	2
BAKERS	807	829	868	54	32	22	175	136	39
CABINETMAKERS	439	448	459	26	17	9	82	71	11
CARPET CUTTERS,CARPET LAYERS	305	311	323	10	4	6	30	18	12
CRANE,DERRICK,HOIST OCCUPS	931	932	968	23	22	1	131	95	36
CRANE,DERRICK,& HOIST OPERATO	929	930	965	23	22	1	130	95	35
MERCHAN DISPLAYERS & WIND TRMRS	231	237	252	14	8	6	51	36	15
DENTAL LAB TECHNICIANS	766	752	894	10	24	-14	250	108	142
FURNITURE FINISHERS	164	167	176	13	10	3	51	42	9
GLAZIERS	352	357	371	11	6	5	42	28	14
GLASS INSTALLERS	22	22	25	0	0	0	4	1	3
GLAZIERS	330	335	346	11	6	5	38	27	11
INSPECTORS,LOG & LUMBER	53	54	55	5	4	1	23	22	1
LUMBER GRADERS	14	14	14	1	1	0	6	6	0
VENEER GRADERS	28	29	29	4	3	1	12	12	0
OTHER INSPECTION OCCUPS	14647	14944	15431	997	700	297	3421	2934	487

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STATEWIDE

OCCUPATIONAL TITLE	EMPLOYMENT 1962 ESTIMATED	 1983 PROJECTED	 1987 PROJECTED	JOB OPENINGS 1962-1983 TOTAL	 REPLACE- MENT 2/	 GROWTH	JOB OPENINGS 1983-1987 TOTAL	 REPLACE- MENT 2/	 GROWTH
INSPECTORS	11601	12038	12426	801	564	237	2752	2364	388
TESTERS	2841	2902	3001	197	136	61	669	570	99
JEWELERS & WATCHMAKERS	448	460	500	38	26	12	156	116	40
JEWELERS &/OR SILVERSMITHS	273	280	311	23	16	7	103	72	31
WATCHMAKERS	170	175	184	15	10	5	52	43	9
MOTION PICTURE PROJECTIONISTS	341	355	397	58	44	14	236	194	42
OPTICIANS,LENS GRINDRS,POLSHRS	841	861	904	52	32	20	184	141	43
LENS GRINDERS	142	147	157	10	5	5	34	24	10
OPTICIANS,DISP &/OR OPTIC MEC	699	714	747	42	27	15	150	117	33
SHIPFITTERS	668	683	711	26	11	15	77	49	28
SHOE REPAIRERS	272	275	267	30	27	3	101	109	-8
SHOE REPAIRERS	271	274	266	30	27	3	101	109	-8
STATIONARY ENGINEERS	1895	1943	2050	119	71	48	423	316	107
CONTROL ROOM OPERATORS,STEAM	180	185	185	12	7	5	29	29	0
AUXILIARY EQUIPMENT OPERATORS	119	122	122	7	4	3	19	19	0
SEWAGE PLANT OPERATORS	434	444	488	27	17	10	119	75	44
STATIONARY ENGINEERS	767	784	816	47	30	17	161	129	32
TURBINE OPERATORS	12	12	12	0	0	0	1	1	0
WATERSHED TENDERS	12	13	14	1	0	1	3	2	1
PUMP STAT OPERATORS,WATERWORK	40	42	44	3	1	2	8	6	2
WASTE TREATMENT PLANT OPS,CHE	32	35	37	4	1	3	7	5	2
WATER TREATMENT PLANT OPERATO	262	268	290	16	10	6	67	45	22
SHIP ENGINEERS	26	27	30	2	1	1	7	4	3
STONE CUTTERS,STONE CARVERS	32	32	32	0	0	0	2	2	0
STONE CARVERS,HAND	32	32	32	0	0	0	2	2	0
TAILORS	947	981	1027	95	61	34	312	266	46
ALTERATION TAILORS	858	894	940	93	57	36	290	244	46
CUSTOM TAILORS	14	14	15	0	0	0	4	3	1
SAMPLE MAKERS	75	73	72	2	4	-2	18	19	-1
UPHOLSTERERS	535	551	587	31	15	16	118	82	36
FURNITURE UPHOLSTERERS	286	295	329	19	10	9	80	46	34
CUSHION MAKERS	23	25	25	2	0	2	3	3	0
SPRINGERS	20	21	21	1	0	1	3	3	0
UPHOLSTERY TRIMMERS	37	38	38	2	1	1	5	5	0
UPHOLSTERERS	95	97	99	5	3	2	16	14	2
UPHOLSTERY CUTTERS	40	40	41	1	1	0	7	6	1
MATTRESS MAKERS	26	27	27	1	0	1	4	4	0
CRAFTS & KINDRED WORKERS,NEC	16483	16858	17758	728	353	375	2399	1499	900
MACHINE SETTERS,WOODWORKING	21	21	21	0	0	0	1	1	0
SHIP RIGGERS	337	344	359	14	7	7	45	30	15
INSTRUCTORS,APPAREL & TEXT MA	24	24	23	1	1	0	3	4	-1
BOARD MACHINE SETTERS	10	10	11	0	0	0	2	1	1

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MACHINE SETTERS,PAPER GOODS	107	107	111	3	3	0	17	13	4
MAINTENANCE REPAIRERS,GEN UTI	7868	8073	8664	374	169	205	1315	724	591
FORMING MACH MAINTAINERS,GLAS	42	40	38	-1	1	-2	2	4	-2
MUSICAL INSTRUMENTS REPAIRERS	92	95	102	4	1	3	15	8	7
ALL OTHER SKILLED CRAFTS WRK	7957	8116	8401	330	171	159	999	714	285
OPERATIVES	217565	222029	230267	11052	6588	4464	36455	28217	8238
OPERATIVES,EX TRANSPORTATION	146854	149511	153887	7260	4603	2657	24139	19763	4376
SEMISKILLED METALWORKING OPS	45404	46359	47947	2223	1268	955	6942	5354	1588
DRILL PRESS OPERATIVES	4477	4571	4726	253	159	94	824	669	155
DRILL PRESS/BORING MACHINE OP	4463	4557	4713	253	159	94	824	668	156
DRILLERS,MACH/DRILLERS,MULT S	14	14	13	0	0	0	0	1	-1
FURNACE TNDRS,SMELTERS,POURERS	928	906	928	5	27	-22	140	118	22
CASTERS,FINISHED OR SEMIFIN P	80	77	79	-1	2	-3	12	10	2
CASTERS,INGOTS & PIGS	95	92	94	0	3	-3	14	12	2
SINTER PRESS SETTERS,OPS	107	103	106	-1	3	-4	16	13	3
STEEL POURER HELPERS	10	9	9	-1	0	-1	1	1	0
POURERS,METAL	289	285	293	5	9	-4	46	38	8
FURNACE OPERATORS,CUPOLA TEND	282	276	283	3	9	-6	44	37	7
FURNACE CHARGERS	38	38	38	1	1	0	5	5	0
HEATING PIT CHARGERS	20	19	19	-1	0	-1	2	2	0
GRINDING/ABRADING MACH OPS,MET	5609	5749	5973	321	181	140	996	766	224
HEATERS,METAL	105	107	109	3	1	2	7	5	2
LATHE,MILLING MACH OPERATIVES	10680	10927	11312	521	274	247	1546	1161	385
LATHE OPERATORS,GRINDING WHEE	18	18	17	0	0	0	0	1	-1
LATHE MACH OPERATORS,METAL	7436	7611	7904	367	192	175	1104	811	293
MILLING/PLANING MACHINE OPERA	3181	3252	3345	153	82	71	438	345	93
SHAPER &/OR ROUTER OPERATORS	29	29	29	0	0	0	3	3	0
METAL PLATERS	1942	1973	2008	95	64	31	303	268	35
ELECTROPLATERS	1477	1503	1534	75	49	26	236	205	31
DIP PLATERS,NONELECTROLYTIC	465	470	474	20	15	5	67	63	4
OTHER PRECISION MACH OPR	10717	10976	11390	485	226	259	1373	959	414
BORING MACHINE OPERATORS,WOOD	21	21	20	0	0	0	0	1	-1
MACHINE TOOL OPERATORS,COMBO	7311	7487	7775	331	155	176	944	656	288
MACHINE TOOL OPERATORS,NUM CO	1748	1793	1864	82	37	45	228	157	71
WOOD MACHINISTS	269	275	279	11	5	6	27	23	4
MACHINE TOOL OPERATORS,TOOL R	1367	1399	1451	61	29	32	174	122	52
PUNCH,STAMPING PRESS OPS	4430	4505	4606	255	180	75	848	747	101
POWER PRESS TENDERS	161	156	146	1	6	-5	14	24	-10
PUNCH PRESS OPERATORS,METAL	3709	3773	3865	215	151	64	719	627	92
POWER BRAKE,BENDING MACH OPS.	560	575	594	38	23	15	115	96	19
WELDERS & FLAME CUTTERS	6513	6642	6892	285	156	129	911	661	250
WELDERS & FLAMECUTTERS	1590	1612	1685	60	38	22	234	161	73

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WELDERS & FLAMECUTTERS--A	932	952	985	42	22	20	127	94	33
WELDERS & FLAMECUTTERS--B	2872	2937	3051	134	69	65	407	293	114
WELDERS & FLAMECUTTERS--C	1118	1140	1170	49	27	22	143	113	30
SEMISKILLED TEXTILE OPS	3248	3203	2843	82	127	-45	194	554	-360
CARDING,LAPPING,COMBING OPS	353	349	300	16	20	-4	36	85	-49
CARD GRINDERS	14	14	13	0	0	0	2	3	-1
CARD TENDRS,COMBER TENDRS,ETC	130	129	111	7	8	-1	14	32	-18
DRAWING FRAME & GILL BOX TEND	93	91	79	4	6	-2	11	23	-12
PICKER TENDERS	35	35	30	2	2	0	3	8	-5
SLUBBER TENDERS	56	55	47	2	3	-1	5	13	-8
DRAWERS-IN,HAND	16	16	14	1	1	0	2	4	-2
KNITTERS,LOOPERS,& TOPPERS	163	160	139	0	3	-3	-7	14	-21
KNITTING MACHINE OPERATORS	111	108	95	0	3	-3	-2	11	-13
SEAMLESS HOSIERY KNITTERS	25	25	21	0	0	0	-2	2	-4
WARP KNITTING MACHINE OPERATO	13	13	11	0	0	0	-1	1	-2
SPINNERS,TWISTERS,& WINDERS	1641	1619	1429	49	71	-22	95	285	-190
BEAM WARPER TENDERS &/OR BEAM	58	57	49	1	2	-1	2	10	-8
BOBBIN WINDERS,MACH/SEWING MA	39	39	34	1	1	0	2	7	-5
CLOTH OR CARPET WINDERS	24	24	19	1	1	0	-1	4	-5
CREELERS,YARN	126	123	110	2	5	-3	9	22	-13
DOFFERS	194	191	170	6	9	-3	13	34	-21
LOOM WINDER TENDERS	25	25	22	1	1	0	1	4	-3
QUILLING MACHINE OPERATORS	21	21	19	1	1	0	1	3	-2
SPEEDER TENDERS	21	21	17	1	1	0	-1	3	-4
SPINNERS,FRAME	322	319	282	12	15	-3	21	58	-37
TWISTER TENDERS	209	207	183	7	9	-2	13	37	-24
WARP TYING MACHINE TENDERS	23	23	18	1	1	0	-2	3	-5
WINDER OPERATORS,AUTOMATIC	193	190	170	6	9	-3	14	34	-20
YARN WINDERS	297	292	259	9	14	-5	20	53	-33
SPOOLER OPERATORS,AUTOMATIC	52	51	45	1	2	-1	3	9	-6
TWISTERS,HAND	11	10	10	-1	0	-1	1	1	0
ROPE LAYING MACHINE OPERATORS	15	15	13	0	0	0	0	2	-2
WEAVERS	245	243	215	9	11	-2	18	46	-28
NEEDLE-FELT-MAKING MACH OPS,E	15	15	13	0	0	0	0	2	-2
SMASH HANDS	14	14	13	0	0	0	1	2	-1
WEAVERS	216	214	189	9	11	-2	17	42	-25
OTHER TEXTILE OPERATIVES	846	832	760	8	22	-14	52	124	-72
BACK TENDERS,CLOTH PRINTING	26	26	23	1	1	0	1	4	-3
BATTERY LOADERS	32	32	28	1	1	0	1	5	-4
BLEACH-RANGE OPS,KNIT GDS BLC	17	17	16	0	0	0	1	2	-1
BOARDING MACH OPERATORS,HOSIE	22	21	19	-1	0	-1	1	3	-2
BURLERS	28	28	24	1	1	0	0	4	-4

NOTE: OCCUPATIONS WITH LESS THAN 10 WORKERS ARE NOT SHOWN BUT ARE INCLUDED WITHIN GROUP TOTALS. THEREFORE GROUP TOTALS MAY EXCEED THE SUM OF THEIR PARTS.

TABLE 13

OCCUPATIONAL EMPLOYMENT AND LABOR DEMAND 1/
STATEWIDE

OCCUPATIONAL TITLE	EMPLOYMENT 1982 ESTIMATED	1983 PROJECTED	1987 PROJECTED	JOB OPENINGS 1982-1983 TOTAL	REPLACE-MENT 2/	GROWTH	JOB OPENINGS 1983-1987 TOTAL	REPLACE-MENT 2/	GROWTH
CLOTH FEEDERS &/OR BACK TENDE	44	44	41	1	1	0	4	7	-3
CLOTH FINISHING RANGE TNDRS,M	25	25	23	1	1	0	2	4	-2
CLOTH FINISHING RANGE OP,CHIE	23	23	21	0	0	0	1	3	-2
CLOTH PRINTERS	32	31	27	0	1	-1	1	5	-4
FULLERS,TEXTILE	10	10	8	0	0	0	-1	1	-2
HARNESS BUILDERS,LOOM CHNGRS,	11	11	10	0	0	0	0	1	-1
HARNESS PLACERS	14	14	12	0	0	0	0	2	-2
NAPPER TENDERS	15	15	15	0	0	0	2	2	0
OPENER TENDERS/WASTE MACH TEN	40	40	34	1	1	0	0	6	-6
RUBBER COVERING MACHINE OPERA	21	21	17	0	0	0	-1	3	-4
SLASHER TENDERS	17	17	16	0	0	0	1	2	-1
TENTER FRAME OPERATORS	38	37	34	0	1	-1	3	6	-3
TEXTURIZERS &/OR CRIMP SETTER	61	61	52	2	2	0	0	9	-9
TURNERS	101	97	97	0	4	-4	16	16	0
FOLDERS,HAND	185	180	171	2	7	-5	21	30	-9
AUTOCLAVE OPERATORS	11	11	10	0	0	0	0	1	-1
DRIER OPERATORS,TEXTILES & RU	36	35	30	0	1	-1	0	5	-5
SEMISKLD PACKNG,INSPECTNG OPS	11190	11423	11797	640	407	233	2091	1717	374
CHECKERS,EXAMINERS,ETC,MFG	391	376	351	-2	13	-15	28	53	-25
SELECTORS,GLASSWARE	391	376	351	-2	13	-15	28	53	-25
GRADERS & SORTERS,MFG	131	132	125	4	3	1	16	23	-7
GRADERS,FOOD &/OR SKINS	34	36	36	3	1	2	7	7	0
SORTERS,BURNED PRODUCTS	13	13	12	0	0	0	1	2	-1
SORTERS,UPHOLSTERY PARTS	19	19	19	0	0	0	3	3	0
CLOTH GRADERS	58	57	51	1	2	-1	4	10	-6
PACKERS,WRAPPERS,EX MEAT,PROD	10668	10915	11321	638	391	247	2047	1641	406
PRODUCTION PACKAGERS	8657	8860	9166	522	319	203	1637	1331	306
BUNDLERS	138	133	132	-1	4	-5	18	19	-1
BAGGERS	1856	1906	2007	118	68	50	390	289	101
WRAPPING MACHINE OPERATORS	16	16	16	0	0	0	2	2	0
OTHER OPERATIVES,EX TRANSPORT	87010	88524	91298	4315	2801	1514	14912	12138	2774
ASBESTOS & INSULATION WORKERS	511	513	518	8	6	2	32	27	5
ASSEMBLERS	34181	34991	36195	1938	1128	810	5958	4754	1204
CASE MAKERS	21	21	19	0	0	0	0	2	-2
POWER SCREWDRIVER OPERATORS	126	131	131	9	4	5	17	17	0
WIRERS,ELECTRONIC	638	656	690	39	21	18	124	90	34
COIL FINISHERS	264	271	278	15	8	7	43	36	7
CORE LAYERS/SHEET TURNERS	18	18	19	0	0	0	3	2	1
ASSEMBLERS	734	710	667	-1	23	-24	49	92	-43
ASSEMBLERS--A	496	502	496	22	16	6	61	67	-6
MACHINE ASSEMBLERS--A	1304	1348	1423	82	38	44	240	165	75
INSTRUMENT MAKERS--A	270	279	299	17	8	9	55	35	20

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TABLE 13

OCCUPATIONAL EMPLOYMENT AND LABOR DEMAND 1/
STATEWIDE

OCCUPATIONAL TITLE	EMPLOYMENT 1982 ESTIMATED	1983 PROJECTED	1987 PROJECTED	JOB OPENINGS 1982-1983 TOTAL	REPLACE-MENT 2/	GROWTH	JOB OPENINGS 1983-1987 TOTAL	REPLACE-MENT 2/	GROWTH
ELEC MECH EQUIPMT ASSEMBLERS-	810	835	875	52	27	25	155	115	40
ELEC & ELECT ASSEMBLERS-A	2460	2535	2657	157	82	75	471	349	122
ALL OTHER ASSEMBLERS--A	726	747	779	45	24	21	134	102	32
ASSEMBLERS--B	1190	1197	1198	46	39	7	162	161	1
MACHINE ASSEMBLERS--B	1055	1087	1134	67	35	32	196	149	47
INSTRUMENT ASSEMBLERS--B	484	499	532	31	16	15	102	69	33
ELEC MECH EQUIPMT ASSEMBLERS-	892	917	968	54	29	25	177	126	51
ELEC & ELECT ASSEMBLERS--B	3312	3409	3563	208	111	97	623	469	154
AIRCRAFT,STRUCTURE ASSEMBLERS	370	379	394	21	12	9	67	52	15
CLOCK,WATCH ASSEMBLERS--B	212	218	235	13	7	6	47	30	17
ALL OTHER ASSEMBLERS--B	1741	1790	1879	107	58	49	335	246	89
ASSEMBLERS--C	17038	17424	17941	956	570	386	2896	2379	517
BLASTERS	12	12	12	0	0	0	1	1	0
BLASTERS,CONSTRUCTION	10	10	10	0	0	0	1	1	0
SURVEYORS HELPERS	793	807	867	17	3	14	73	13	60
CLOTHING IRONERS & PRESSERS	1764	1906	1973	216	74	142	394	327	67
PRESSERS,HAND	329	330	326	14	13	1	51	55	-4
PRESSERS,MACHINE	518	571	580	75	22	53	106	97	9
PRESSERS,MACHINE,LAUNDRY	882	971	1034	127	38	89	233	170	63
SHAPERS & PRESSERS	35	34	33	0	1	-1	4	5	-1
CUTTING OPERATIVES,NEC	1865	1859	1886	55	61	-6	300	273	27
BIAS MACHINE OPERATORS	34	34	34	1	1	0	5	5	0
CUTTERS,MACHINE	267	263	271	5	9	-4	48	40	8
AUTOMATIC CLIPPERS,VENEER	11	11	12	0	0	0	2	1	1
CORNER CUTTERS	10	10	10	0	0	0	1	1	0
CORRUGATOR-KNIFE OPERATORS	14	14	14	0	0	0	2	2	0
CUTTERS,PORTABLE MACHINE	139	135	132	1	5	-4	17	20	-3
DIE CUTTERS,CLICKING MACH OPS	123	121	120	2	4	-2	17	18	-1
GLASS CUTTERS,MACHINE	12	12	11	0	0	0	0	1	-1
PATTERN CUTTERS	20	19	19	-1	0	-1	2	2	0
RUBBER GDS CUTTER-FINISHER OP	167	167	168	6	6	0	26	25	1
SLITTER-CREASER-SLOTTER OPERA	34	34	35	1	1	0	6	5	1
SLITTER-SCORER-CUT-OFF OPERAT	14	14	14	0	0	0	2	2	0
STAPLE CUTTERS/ST PROC MACH O	13	13	12	0	0	0	0	1	-1
TRIMMERS,PLASTICS	42	42	42	1	1	0	6	6	0
SHEAR &/OR SLITTER OPERATORS,	790	789	811	28	29	-1	142	120	22
CUTTING MACHINE OPERATORS,FOO	136	141	141	10	5	5	21	21	0
PLANER OPERATORS	13	14	14	1	0	1	2	2	0
DRESSMAKERS,EX FACTORY	164	169	185	15	10	5	62	46	16
DRILLERS,EARTH	50	50	50	1	1	0	5	5	0
DRILLERS,MACHINE	47	47	47	1	1	0	5	5	0
DRY WALL INSTALLERS,LATHERS	971	969	976	9	11	-2	60	53	7

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TABLE 13

OCCUPATIONAL EMPLOYMENT AND LABOR DEMAND 1/
STATEWIDE

OCCUPATIONAL TITLE	EMPLOYMENT 1982 ESTIMATED	1983 PROJECTED	1987 PROJECTED	JOB OPENINGS 1982-1983 TOTAL	REPLACE-MENT 2/	GROWTH	JOB OPENINGS 1983-1987 TOTAL	REPLACE-MENT 2/	GROWTH
DRY WALL APPLICATORS	585	584	588	6	7	-1	36	32	4
LATHERS	18	18	18	0	0	0	1	1	0
TAPERS	368	367	370	3	4	-1	23	20	3
DYERS	129	128	112	2	3	-1	4	20	-16
BEAM DYER OPS,PKG DYE MACH OP	20	20	18	0	0	0	1	3	-2
DYE RANGE OPS/SP DYE BECK TND	34	34	30	1	1	0	2	6	-4
DYE REEL OPS,JIGGRS,PAD MACH	30	29	25	0	1	-1	1	5	-4
DYE TUB OPS,RANDOM DYERS,ETC	23	23	19	1	1	0	-1	3	-4
SKEIN YARN DYERS	13	13	12	0	0	0	1	2	-1
FILERS,POLISHRS,SANDRS,BUFFRS	4955	5044	5202	284	195	89	984	826	158
FILERS,GRINDERS,BUFFERS,CHIPP	4512	4599	4755	268	181	87	914	758	156
SANDBLASTERS/SHOTBLASTERS	194	199	204	12	7	5	37	32	5
DIE POLISHERS,WIRE &/OR TUBES	38	37	38	0	1	-1	7	6	1
GLASS FINISHERS	29	28	26	0	1	-1	2	4	-2
PLANERS,STONE	49	47	44	-1	1	-2	4	7	-3
POLISHERS,GLASS &/OR BLOCKERS	16	16	15	0	0	0	1	2	-1
SANDERS,WOOD	105	106	110	5	4	1	21	17	4
GARAGE WORKERS,GAS STAT ATTNS	6029	6202	6558	270	97	173	776	420	356
MARINE SERVICE STAT ATTENDANT	49	52	57	3	0	3	8	3	5
TRAILER RENTAL ATTENDANTS	34	35	39	1	0	1	6	2	4
FUEL PUMP ATTENDANTS,LUBRICAT	5301	5452	5763	238	87	151	682	371	311
TIRE CHANGERS	639	657	693	28	10	18	80	44	36
LAUNDRY,DRYCLEANING OPS,NEC	2154	2367	2529	306	93	213	593	431	162
MARKERS,CLASSIFIERS,ASSEMBLER	203	231	239	37	9	28	49	41	8
SPOTTERS,DRYCLEANING	77	89	91	15	3	12	18	16	2
SPOTTERS,WASHABLE MATERIALS	19	23	23	4	0	4	4	4	0
WASHERS,MACH &/OR STARCHERS	1089	1153	1280	113	49	64	343	216	127
TUMBLER OPERATORS	46	53	54	9	2	7	10	9	1
DRYCLEANING MACHINE OPERATORS	162	168	192	33	7	26	37	33	4
LAUNDRY OPERATORS,SM ESTABLHM	173	195	200	30	8	22	40	35	5
RUG CLEANERS,HAND	58	68	69	12	2	10	13	12	1
RUG CLEANERS,MACHINE	40	46	47	7	1	6	9	8	1
FOLDERS,LAUNDRY	274	307	321	45	12	33	69	55	14
MEAT CUTTERS,BUTCHERS	68	69	70	3	2	1	16	15	1
BONERS,MEAT	16	16	16	0	0	0	3	3	0
BUTCHERS,ALL-AROUND	47	48	49	3	2	1	12	11	1
MINE OPERATIVES,NEC	120	116	118	-3	1	-4	10	8	2
LOADING MACHINE OPERATORS	13	13	13	0	0	0	1	1	0
ROCK SPLITTERS,QUARRY	29	29	30	0	0	0	3	2	1
MILL &/OR GRINDER OPS,MINERAL	66	62	63	-3	1	-4	6	5	1
MIXING OPERATIVES	552	554	550	11	9	2	46	50	-4
ASPHALT-PLANT OPERATORS	26	26	26	0	0	0	2	2	0

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TABLE 13

OCCUPATIONAL EMPLOYMENT AND LABOR DEMAND 1/
STATEWIDE

OCCUPATIONAL TITLE	EMPLOYMENT 1982 ESTIMATED	1983 PROJECTED	1987 PROJECTED	JOB OPENINGS 1982-1983 TOTAL	REPLACEMENT 2/	GROWTH	JOB OPENINGS 1983-1987 TOTAL	REPLACEMENT 2/	GROWTH
COATING MIXER TENDERS	23	23	24	0	0	0	3	2	1
MIXER OPERATORS,HOT METAL	36	34	35	-2	0	-2	4	3	1
TINTERS	20	21	24	1	0	1	5	2	3
MIXERS,STONE,CLAY,GLASS,ETC	124	119	111	-3	2	-5	3	11	-8
MIXERS,FOOD & TOBACCO	295	304	305	16	7	9	31	30	1
OILERS	448	452	460	16	12	4	59	51	8
PAINTERS,MFG ARTICLES	2630	2691	2813	122	61	61	387	265	122
PAINTERS,AUTOMOTIVE	562	581	651	32	13	19	129	59	70
DECORATORS,HAND	58	58	56	1	1	0	3	5	-2
RUBBERS	44	45	46	2	1	1	5	4	1
PAINTERS,PRODUCTION	1966	2007	2060	87	46	41	250	197	53
PHOTOGRAPHIC PROCESS WORKERS	634	649	709	33	18	15	141	81	60
RIVETERS & FASTENERS	383	389	397	17	11	6	63	55	8
NAILING MACHINE OPERATORS	50	51	53	2	1	1	9	7	2
STAPLING MACHINE OPERATORS	26	26	27	0	0	0	4	3	1
RIVETERS,LIGHT	304	309	314	15	10	5	50	45	5
SAILORS & DECKHANDS	96	102	111	8	2	6	26	17	9
BOATSWAINS	13	14	15	1	0	1	3	2	1
ABLE SEAMEN	20	22	23	2	0	2	4	3	1
ORDINARY SEAMEN	63	66	73	5	2	3	19	12	7
SAWYERS	545	555	566	32	22	10	122	111	11
CUT-OFF SAW OPERATORS,LUMBER	86	88	89	6	4	2	19	18	1
EDGERS,AUTOMATIC &/OR PONY	14	14	14	0	0	0	2	2	0
HEAD SAWYERS	14	14	14	0	0	0	2	2	0
RESAWYERS	12	12	13	0	0	0	3	2	1
RIPSAW OPERATORS	41	42	46	3	2	1	13	9	4
SAWYERS,METAL	311	318	323	23	16	7	73	68	5
SAWYERS,STONE	15	14	13	-1	0	-1	1	2	-1
SAWYERS,PLASTICS	13	13	14	0	0	0	3	2	1
TRIM SAW OPERATORS	16	18	18	0	0	0	3	3	0
SEWERS & STITCHERS	6898	6727	6690	199	370	-171	1432	1469	-37
LINING FINISHERS	20	21	24	2	1	1	7	4	3
MENDERS	136	151	155	22	7	15	37	33	4
SEWING MACH OPS,REG EQMT,NONG	1304	1295	1301	62	71	-9	291	285	6
GARMENT REPAIRERS	23	20	20	-2	1	-3	4	4	0
MENDERS,CLOTH	24	24	20	1	1	0	0	4	-4
SEWING MACH OPS,SPEC EQMT,NON	483	473	470	16	26	-10	100	103	-3
SEWING MACH OPS,SPEC EQMT,GAR	1013	976	961	17	54	-37	197	212	-15
SEWING MACH OPS,REG EQMT,GARM	3890	3762	3734	81	209	-128	796	824	-28
SHOEMAKING MACHINE OPS	169	167	158	-1	1	-2	4	13	-9
INKERS,HAND OR MACHINE	16	17	17	1	0	1	2	2	0
REPAIRERS,SHOE FINISH	10	10	9	0	0	0	0	1	-1

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TABLE 13

OCCUPATIONAL EMPLOYMENT AND LABOR DEMAND 1/
STATEWIDE

OCCUPATIONAL TITLE	EMPLOYMENT 1982 ESTIMATED	 1983 PROJECTED	 1987 PROJECTED	JOB OPENINGS 1982-1983 TOTAL	 REPLACE- MENT 2/	 GROWTH	JOB OPENINGS 1983-1987 TOTAL	 REPLACE- MENT 2/	 GROWTH
STITCHERS,STANDARD MACHINE	54	52	48	-1	1	-2	2	6	-4
TRIMMERS,MACHINE	11	11	11	0	0	0	1	1	0
CEMENTERS,PASTERS,BACKERS,ETC	25	24	22	-1	0	-1	0	2	-2
FURNACE TNDRS,STOKRS,EX METAL	821	827	849	43	37	6	183	161	22
STATIONARY BOILER FIRERS	719	729	757	44	34	10	173	145	28
BATCH,FURNACE,TANK OPERATORS,	12	12	11	0	0	0	1	2	-1
KILN OPERATORS,MINERALS	72	69	64	0	3	-3	8	13	-5
WINDING OPERATIVES,NEC	808	825	842	37	20	17	103	86	17
PAPER WELL OPS,REWINDER OPS	23	23	23	0	0	0	2	2	0
WINDERS,PAPER MACHINE	76	76	79	2	2	0	11	8	3
COIL WINDERS	543	558	571	29	14	15	73	60	13
AUTOMAT SPRING COILING MACH O	152	154	156	6	4	2	18	16	2
MISC MACH OPS,MEAT & DAIRY PRO	361	371	374	19	9	10	50	47	3
SKIN PEELING MACHINE OPERATOR	12	12	12	0	0	0	1	1	0
CASING FINISHERS &/OR STUFFER	40	41	42	2	1	1	6	5	1
NOVELTY WORKERS	10	11	11	1	0	1	1	1	0
FLAVOR ROOM WORKERS,FREEZER O	72	74	74	4	2	2	10	10	0
DAIRY PROCESSING EQMT OPERATO	147	151	153	9	5	4	23	21	2
CHEESEMAKERS	14	15	15	1	0	1	2	2	0
MEAT GRINDERS	20	20	20	0	0	0	2	2	0
COOKS &/OR COOKERS	40	41	41	2	1	1	5	5	0
MISC MACH OPS,ALL OTH FOOD PRO	680	701	716	40	19	21	109	94	15
DEPOSITORS,FOOD	23	25	25	2	0	2	3	3	0
FEED PELLET MILL OPERATORS	15	15	15	0	0	0	2	2	0
CANDY MAKERS	60	62	62	4	2	2	8	8	0
DOUGHNUT MAKRS/DOUGHNUT MACH	237	243	256	14	8	6	47	34	13
DIVIDING MACH OPERATORS,ETC	103	107	107	7	3	4	14	14	0
STILL OPERATORS	17	18	18	1	0	1	2	2	0
OVEN OPERATORS	143	148	149	9	4	5	21	20	1
DRIER OPERATORS	65	66	67	3	2	1	10	9	1
MISC MACH OPS,TOBACCO	40	38	37	-2	0	-2	2	3	-1
WRAPPER LAYERS	21	20	19	-1	0	-1	1	2	-1
MISC MACH OPS,TEXTILE MILL PRO	165	162	148	-1	2	-3	4	18	-14
LAMINATING MACHINE OPERATORS,	22	22	20	0	0	0	0	2	-2
CALENDER OPERATORS,CLOTH PRES	17	17	12	0	0	0	-3	2	-5
BLENDING MACHINE OPERATORS	38	37	33	0	1	-1	0	4	-4
COATING MACHINE OPERATORS	33	33	30	1	1	0	1	4	-3
FUSING MACHINE OPERATORS	16	15	15	-1	0	-1	2	2	0
FOLDING MACHINE OPERATORS	23	22	21	-1	0	-1	2	3	-1
MISC MACH OPS,LUMBER PROD,FURN	367	374	367	15	8	7	39	46	-7
VENEER DRIERS	14	14	15	0	0	0	3	2	1
HOT PLATE PLYWOOD PRESS OPS	12	12	12	0	0	0	1	1	0

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TABLE 13

OCCUPATIONAL EMPLOYMENT AND LABOR DEMAND 1/
STATEWIDE

OCCUPATIONAL TITLE	EMPLOYMENT 1962 ESTIMATED	1983 PROJECTED	1987 PROJECTED	JOB OPENINGS 1982-1983 TOTAL	REPLACE- MENT 2/	GROWTH	JOB OPENINGS 1983-1987 TOTAL	REPLACE- MENT 2/	GROWTH
POWER BARKER OPERATORS	11	12	12	1	0	1	1	1	0
HYDRAULIC PRESS OPERATORS,VEN	11	12	12	1	0	1	1	1	0
WOODWORKING MACHINE OPERATORS	252	255	247	11	8	3	27	35	-8
LAMINATING MACH OPERATORS,FUR	26	27	27	1	0	1	3	3	0
MISC MACH OPS,PAPER,ALLIED PRO	1387	1389	1446	36	34	2	235	178	57
PULPERS	46	46	51	1	1	0	9	6	3
FOURDRINIER MACHINE TENDERS	87	87	89	2	2	0	14	12	2
BACK TENDERS	90	90	94	3	3	0	16	12	4
BEATERS	147	147	153	5	5	0	26	20	6
BEATER ENGINEERS	56	56	59	1	1	0	11	8	3
CYLINDER MACHINE TENDERS	29	29	31	0	0	0	6	4	2
COATER OPERATORS,OFF-MACHINE	44	44	46	1	1	0	8	6	2
PRINTER-SLOTTER OPERATORS	45	45	48	1	1	0	9	6	3
SCORERS	10	10	10	0	0	0	1	1	0
TAPING MACHINE OPERATORS	41	41	43	1	1	0	7	5	2
FLEXO-FOLDER-GLUER OPERATORS	32	32	33	1	1	0	5	4	1
ENVELOPE MACHINE OPERATORS	48	48	50	1	1	0	8	6	2
FOLDING MACHINE OPERATORS,PAP	57	57	59	1	1	0	10	8	2
BOX MAKERS,PAPERBOARD	60	60	63	2	2	0	11	8	3
CUTTING & CREASING PRESS OPS	111	112	115	4	3	1	18	15	3
BOX COVER STRIPPERS	10	10	10	0	0	0	1	1	0
CARTON-FORMING MACH OPERATORS	87	88	91	3	2	1	15	12	3
CORRUGATOR OPERATORS	47	47	49	1	1	0	8	6	2
SCRAPPERS/STRIPPERS	97	97	101	3	3	0	17	13	4
FOURTH/FIFTH HANDS,PAPER MACH	97	97	100	3	3	0	16	13	3
KNOTTING MACH OPS/TAG MACH OP	35	35	36	1	1	0	5	4	1
STRING MACH OPS/TAPE FASTNG O	37	37	38	1	1	0	6	5	1
MISC MACH OPS,CHEM,ALLIED PROD	2163	2262	2490	171	72	99	554	326	228
PULVERIZER & DRIER TENDERS	20	21	24	1	0	1	6	3	3
DYNAMITE CARTRIDGE CRIMPERS	14	15	16	1	0	1	3	2	1
CHEMICAL OPERATOR HELPERS	300	315	345	25	10	15	76	46	30
CHEMICAL OPERATORS A	1293	1354	1494	106	45	61	338	198	140
CHEMICAL OPERATORS B	324	337	370	24	11	13	82	49	33
DRIER OPERATORS,CHEM,PLAST,RU	16	16	17	0	0	0	3	2	1
CHIEF OPERATORS	175	182	199	13	6	7	43	26	17
MISC MACH OPS,PETROL,COAL PROD	14	14	13	0	0	0	-1	0	-1
MISC MACH OPS,RUBBER,MISC PLAS	3712	3745	3785	155	122	33	558	518	40
RUBBER MILL OPERATORS	133	133	133	4	4	0	18	18	0
HEAT SEALERS	43	43	44	1	1	0	7	6	1
TIRE BUILDERS	207	207	208	7	7	0	29	28	1
PRESS TENDERS,RUBBER GOODS	375	376	377	13	12	1	53	52	1
EXTRUDER OPS,RUBBER OR PLASTI	231	237	248	14	9	6	44	33	11

NOTE: OCCUPATIONS WITH LESS THAN 10 WORKERS ARE NOT SHOWN BUT ARE INCLUDED WITHIN GROUP TOTALS. THEREFORE GROUP TOTALS MAY EXCEED THE SUM OF THEIR PARTS.

TABLE 13

OCCUPATIONAL EMPLOYMENT AND LABOR DEMAND 1/
STATEWIDE

OCCUPATIONAL TITLE	EMPLOYMENT 1982 ESTIMATED	1983 PROJECTED	1987 PROJECTED	JOB OPENINGS 1982-1983 TOTAL	REPLACE-MENT 2/	GROWTH	JOB OPENINGS 1983-1987 TOTAL	REPLACE-MENT 2/	GROWTH
EXTRUDER OP HELPERS,RUB OR PL	61	62	65	3	2	1	11	8	3
BEAD FLIPPERS	13	13	13	0	0	0	1	1	0
BLOW MOLDING MACHINE OPERATOR	87	88	88	3	2	1	12	12	0
CALENDER OPS,RUBBER OR PLASTI	118	121	125	7	4	3	21	17	4
VACUUM PLASTIC FORMING MACH O	10	10	9	0	0	0	0	1	-1
FINISHERS,MACHINE	43	43	43	1	1	0	6	6	0
COMPR &/OR INJECT MOLD MA OPS	2361	2383	2403	103	81	22	354	334	20
MISC MACH OPS,LEATHER & LEA GD	255	246	240	-2	7	-9	26	32	-6
BELT MAKERS,APPAREL	213	205	202	-1	7	-8	25	28	-3
HANDBAG FRAMERS	16	15	14	-1	0	-1	1	2	-1
GLUE SPREADING MACH OPS,LUGGA	21	21	19	0	0	0	0	2	-2
MISC MACH OPS,STONE,CLAY,GLASS	993	954	892	-12	27	-39	58	120	-62
FORMING MACH OPERATORS,GL CON	97	93	87	-1	3	-4	6	12	-6
DRAWING-KILN/GL ROLLING MACH	35	33	31	-1	1	-2	2	4	-2
JIGGER OPERATORS	27	26	25	-1	0	-1	2	3	-1
PRESS OPERATORS	386	372	347	-2	12	-14	25	50	-25
CAGE MAKERS,HAND OR MACHINE	37	36	34	0	1	-1	2	4	-2
BLOCKMAKING MACHINE OPERATORS	33	32	30	0	1	-1	2	4	-2
CONCRETE STONE FABRICATORS	158	152	142	-1	5	-6	10	20	-10
POLISHING-WHEEL MAKERS	10	10	9	0	0	0	0	1	-1
CALENDER MACH OPERATORS	45	43	40	-1	1	-2	2	5	-3
ABRASIVE GRINDERS	34	33	31	0	1	-1	2	4	-2
CONCRETE VAULT MAKERS	70	67	63	-1	2	-3	5	9	-4
MILLERS,CLAY	16	15	14	-1	0	-1	1	2	-1
FLOOR WORKERS,GLASS	23	22	20	-1	0	-1	0	2	-2
MISC MACH OPS,PRIMARY METALS	2121	2088	2133	29	62	-33	330	285	45
COILERS,WINDERS,&/OR SPOOLERS	208	200	205	-2	6	-8	33	28	5
MOLD MAKERS,POTTERY	10	10	9	0	0	0	0	1	-1
STRANDING MACHINE OPERATORS	173	167	171	-1	5	-6	27	23	4
STRETCHER-LEVELER OPERATORS	28	27	28	-1	0	-1	4	3	1
STRIPING MACH OPERATORS,INS W	68	66	67	0	2	-2	10	9	1
DRAW-BENCH OPERATORS,TUBE DPA	90	88	89	1	3	-2	13	12	1
COREMAKERS,MACHINE	155	153	157	3	5	-2	25	21	4
EXTRUSION PRESS OPS,HOT BILLE	29	28	29	-1	0	-1	4	3	1
INSULATING EXTRUDING MACH OPS	519	501	514	-1	17	-18	83	70	13
PICKLERS,CONTINOUS PICKLING L	87	84	86	-1	2	-3	13	11	2
ROLL FORMING MACH OPERATORS	44	45	45	2	1	1	6	6	0
DIE-CASTING MACH OPS,SETTERS	233	232	235	6	7	-1	35	32	3
IMPREGNATORS,ELECTRONIC	77	79	82	4	2	2	14	11	3
COIL TAPERS,HAND OR MACHINE	203	208	215	12	7	5	36	29	7
MULTI-SLIDE MACHINE OPERATORS	141	143	144	6	4	2	21	20	1
WIRE WEAVERS	49	50	50	2	1	1	6	6	0

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TABLE 13

OCCUPATIONAL EMPLOYMENT AND LABOR DEMAND 1/
STATEWIDE

OCCUPATIONAL TITLE	EMPLOYMENT 1982 ESTIMATED	1983 PROJECTED	1987 PROJECTED	JOB OPENINGS 1982-1983 TOTAL	REPLACE-MENT 2/	GROWTH	JOB OPENINGS 1983-1987 TOTAL	REPLACE-MENT 2/	GROWTH
MISC MACH OPS,MFG,NEC	1574	1584	1609	53	43	10	236	211	25
SCREEN/STENCIL PRINTERS/SETTE	487	496	504	25	16	9	77	69	8
SCREEN MAKERS,PHOTOGRAPHIC PR	15	16	15	1	0	1	1	2	-1
COREMAKERS,HAND,BENCH,FLOOR	122	119	121	1	4	-3	18	16	2
SKIVERS	43	43	37	1	1	0	-1	5	-6
GRINDER OPERATORS	149	153	164	9	5	4	33	22	11
CHIPPERS	10	10	11	0	0	0	2	1	1
BRAIDING MACHINE OPERATORS	11	11	10	0	0	0	0	1	-1
TUMBLER OPERATORS,PLASTICS	20	20	20	0	0	0	2	2	0
LAMINATORS,PREFORMS	255	261	271	14	8	6	47	37	10
PRESS OPERATORS,PLASTICS	36	36	36	1	1	0	5	5	0
SPINNERS,JEWELRY & SILVERWARE	35	36	33	2	1	1	1	4	-3
GASKET COATER & DRIER OPERATO	10	10	9	0	0	0	0	1	-1
VULCANIZERS,RUBBER PLATE	24	24	26	0	0	0	5	3	2
ENCAPSULATORS	41	43	44	3	1	2	7	6	1
COATERS,ROOFING FELT	10	9	9	-1	0	-1	1	1	0
CARTRIDGE PRIMING MACH OPERAT	23	22	21	-1	0	-1	2	3	-1
LOADING MACHINE OPERATORS	47	46	44	0	1	-1	4	6	-2
INSUL WRAPPING/BRAIDING MACH	160	154	158	-1	5	-6	25	21	4
ADHESIVE BANDAGE MACH OPERATO	22	23	25	1	0	1	5	3	2
SOABAR OPERATORS	22	20	20	-2	0	-2	2	2	0
MISC MACH OPS,NONMFG	403	415	457	23	11	12	99	57	42
TIRE FABRICATORS,REPAIRERS	314	324	360	20	10	10	83	47	36
BOAT PATCHERS,PLASTIC	25	27	29	2	0	2	5	3	2
PHOTOLETTERING MACHINE OPERAT	32	32	36	1	1	0	8	4	4
REFINERY OPERATORS,PETROLEUM	24	23	21	-1	0	-1	1	3	-2
OPERATIVES,NEC,DURABLE GOODS	2476	2467	2467	59	68	-9	299	299	0
BENCH HANDS,JEWELRY	115	116	107	4	3	1	4	13	-9
CASTERS	10	10	10	0	0	0	1	1	0
CASTERS,PATTERY & PORCELAIN	65	63	59	-1	1	-2	3	7	-4
CONCRETE PIPE MAKERS	59	58	54	0	1	-1	3	7	-4
FABRICATORS,PLASTICS	53	53	55	1	1	0	8	6	2
FINISHERS,HAND	331	332	329	11	10	1	38	41	-3
PLATER HELPERS	1065	1077	1086	44	32	12	144	135	9
CLAY TURNERS	33	32	29	-1	0	-1	0	3	-3
WAX PATTERN WORKERS	18	17	17	-1	0	-1	2	2	0
WIRE DRAWERS	642	625	640	2	19	-17	94	79	15
PIPE STRIPPERS	39	38	35	0	1	-1	1	4	-3
VENEER REPAIRERS,HAND	10	10	11	0	0	0	2	1	1
OPERATIVES,NEC,NONDURABLE GDS	2120	2133	2243	71	58	13	380	270	110
CURERS,RUBBER GOODS	16	16	16	0	0	0	2	2	0
BAKER HELPERS	361	372	375	22	11	11	49	46	3

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TABLE 13

OCCUPATIONAL EMPLOYMENT AND LABOR DEMAND 1/
STATEWIDE

OCCUPATIONAL TITLE	EMPLOYMENT 1982 ESTIMATED	1983 PROJECTED	1987 PROJECTED	JOB OPENINGS 1982-1983 TOTAL	REPLACEMENT 2/	GROWTH	JOB OPENINGS 1983-1987 TOTAL	REPLACEMENT 2/	GROWTH
STEMMERS,HAND	10	9	9	-1	0	-1	1	1	0
CHEESEMAKER HELPERS	12	12	12	0	0	0	1	1	0
COOLER ROOM WORKERS,MEAT	17	17	17	0	0	0	2	2	0
SCREEN CUTTERS/MARKERS,NONPHO	26	27	28	1	0	1	4	3	1
DIE MOUNTERS	11	11	11	0	0	0	1	1	0
FLOOR WORKERS,FOOTWEAR	42	41	38	0	1	-1	1	4	-3
INGREDIENT SCALERS	66	69	69	5	2	3	8	8	0
PICKERS	16	15	14	-1	0	-1	0	1	-1
PRINTER-SLOTTER FEEDERS	43	43	45	1	1	0	7	5	2
SKINNERS,ANIMAL	14	14	14	0	0	0	1	1	0
REFINERY OPERATOR HELPERS,PET	13	13	12	0	0	0	0	1	-1
THREAD TRIMMERS	224	216	213	-2	6	-8	23	26	-3
TIRE FINISHERS	10	10	10	0	0	0	1	1	0
MARKERS	24	23	23	-1	0	-1	2	2	0
PRESS ASSISTANTS & FEEDERS	603	608	668	23	18	5	139	79	60
COPY MARKERS	81	82	90	2	1	1	16	8	8
MAILERS	468	475	519	25	18	7	121	77	44
OPERATIVES,NEC,NONMFG	419	431	475	23	11	12	100	56	44
BILLPOSTERS	30	31	34	1	0	1	7	4	3
EXTERMINATORS	332	341	377	19	10	9	80	44	36
TERMITE TREATERS	40	41	45	2	1	1	9	5	4
DRAPERY & UPHOLSTERY MEASURER	17	18	19	1	0	1	4	3	1
TRANSPORT EQUIPMT OPERATIVES	45692	47219	50317	2739	1212	1527	8335	5237	3098
BUS DRIVERS	6985	7348	7900	711	348	363	2063	1511	552
DELIVERY & ROUTE WORKERS	12364	12742	13600	640	262	378	1983	1125	858
DELIVERY & ROUTE WORKERS	12224	12598	13449	634	260	374	1964	1113	851
FURNITURE ASSEMBLERS & INSTAL	140	144	151	6	2	4	19	12	7
FORK LIFT,TOW MOTOR OPS	4507	4560	4746	170	117	53	681	495	186
INDUSTRIAL TRUCK OPERATORS	4485	4538	4724	170	117	53	680	494	186
LOG HANDLING EQUIPMENT OPERAT	16	16	16	0	0	0	1	1	0
PARKING ATTENDANTS	555	613	687	91	33	58	224	150	74
RAILROAD BRAKE OPERATORS	303	302	313	6	7	-1	44	33	11
TOWER OPERATORS	87	87	90	2	2	0	13	10	3
TAXICAB DRIVERS,CHAUFFEURS	1358	1442	1568	165	81	84	488	362	126
AMBULANCE DRIVERS/AMB ATTENDA	215	230	247	28	13	15	74	57	17
TAXI DRIVERS	536	570	622	66	32	34	196	144	52
RENTAL CAR DELIVERY WORKERS	79	81	89	6	4	2	28	20	8
CHAUFFEURS	526	558	607	64	32	32	190	141	49
TRUCK DRIVERS	19531	20123	21412	954	362	592	2840	1551	1289
TRUCK DRIVERS	19531	20123	21412	954	362	592	2840	1551	1289
ALL OTHER SEMISKILLED WORKERS	25019	25298	26062	1052	773	279	3981	3217	764
SERVICE WORKERS	203677	210193	228727	15648	9132	6516	57788	39254	18534

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TABLE 13

OCCUPATIONAL EMPLOYMENT AND LABOR DEMAND 1/
STATEWIDE

OCCUPATIONAL TITLE	EMPLOYMENT 1982 ESTIMATED	EMPLOYMENT 1983 PROJECTED	EMPLOYMENT 1987 PROJECTED	JOB OPENINGS 1982-1983 TOTAL	JOB OPENINGS 1982-1983 REPLACEMENT 2/	JOB OPENINGS 1982-1983 GROWTH	JOB OPENINGS 1983-1987 TOTAL	JOB OPENINGS 1983-1987 REPLACEMENT 2/	JOB OPENINGS 1983-1987 GROWTH
CLEANING SERVICE WORKERS	41537	42603	45704	3748	2682	1066	14453	11352	3101
JANITORS & SEXTONS	41537	42603	45704	3748	2682	1066	14453	11352	3101
FOOD SERVICE WORKERS	86423	91746	100066	6504	3181	3323	22070	13750	8320
BAKERS,BREAD &/OR PASTRY	689	704	749	42	27	15	162	117	45
BARTENDERS	5859	6117	6751	517	259	258	1776	1142	634
WAITERS ASSISTANTS	2652	2762	3022	127	17	110	336	76	260
COOKS,EX PRIVATE	11794	12171	13122	828	451	377	2879	1928	951
COOKS,SHORT ORDER/SPEC FAST F	3513	3657	4007	279	135	144	934	584	350
COOKS,RESTAURANT	4500	4683	5136	356	173	183	1202	749	453
COOKS,INSTITUTIONAL	3781	3830	3977	192	143	49	742	595	147
BUTCHERS &/OR MEAT CUTTERS	2963	3043	3226	184	104	80	629	446	183
WAITERS	29006	30233	33227	2108	881	1227	6844	3850	2994
HOSTS/HOSTESSES,REST,LNGE,COF	1771	1846	2030	128	53	75	419	235	184
WAITERS OR WAITRESSES	27234	28366	31197	1980	828	1152	6426	3615	2811
FOOD WORKERS,NEC,EX PRIVATE	35457	36712	39966	2697	1442	1255	9445	6191	3254
KITCHEN HELPERS	13733	14229	15572	1055	559	496	3749	2406	1343
FD PREP & SERV WKRS,FAST FD R	12958	13506	14843	1077	529	548	3626	2289	1337
PANTRY,SANDWICH,&/OR COFF MAK	1590	1655	1813	129	64	65	438	280	158
ALL OTHER FOOD SERVICE WRKRS	7175	7321	7736	436	290	146	1631	1216	415
HEALTH SERVICE WORKERS	22261	23119	26080	1683	825	858	6594	3633	2961
HEALTH AIDES,EX NURSING	83	86	96	5	2	3	22	12	10
NURSES AIDES,ORDERLIES	22178	23033	25984	1678	823	855	6572	3621	2951
NURSES AIDES/ORDERLIES	17925	18617	21038	1358	666	692	5352	2931	2421
PSYCHIATRIC AIDES	2931	3040	3402	217	108	109	838	476	362
MEDICAL ASSISTANTS	1317	1371	1537	103	49	54	380	214	166
PERSONAL SERVICE WORKERS	17160	17680	18944	1369	849	520	4918	3654	1264
ATTNS,RECREATION,AMUSEMENT	1411	1472	1638	139	78	61	513	347	166
RECREATION FACILITY ATTENDANT	647	671	744	60	36	24	231	158	73
GAME OPS,RIDE OPS,CONCESS WKR	278	292	327	29	15	14	104	69	35
PIN CHASERS	113	119	134	12	6	6	43	28	15
LIFEGUARDS	373	390	433	38	21	17	135	92	43
ATTNS,PERSONAL SERVICE,NEC	2719	2808	3130	270	181	89	1116	794	322
FUNERAL ATTENDANTS	119	121	125	11	9	2	42	38	4
GUIDES,TRAVEL	98	104	114	13	7	6	43	33	10
MASSEURS OR MASSEUSES	77	78	88	6	5	1	35	25	10
INSTRUCTORS,REDUCING	1044	1060	1187	97	81	16	476	349	127
HOUSEKEEPERS,HOTEL & MOTEL	1079	1128	1262	105	56	49	380	246	134
CHECKROOM & LOCKER RM ATTNS	148	154	172	17	11	6	68	50	18
GUIDES,SIGHTSEEING OR ESTABLH	154	163	182	21	12	9	72	53	19
BAGGAGE PORTERS & BELLHOPS	161	167	177	11	5	6	34	24	10
BELLHOPS,BAG PORTERS,DRKPRS,E	139	145	154	11	5	6	32	23	9
BAGGAGE HANDLERS	16	16	17	0	0	0	2	1	1

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TABLE 13

OCCUPATIONAL EMPLOYMENT AND LABOR DEMAND 1/
STATEWIDE

	EMPLOYMENT			JOB OPENINGS 1982-1983			JOB OPENINGS 1983-1987		
OCCUPATIONAL TITLE	1982 ESTIMATED	1983 PROJECTED	1987 PROJECTED	TOTAL	REPLACEMENT 2/	GROWTH	TOTAL	REPLACEMENT 2/	GROWTH
BARBERS	1518	1544	1508	119	93	26	342	378	-36
CHILD CARE WORKERS,EX PRIVATE	2189	2239	2372	173	123	50	650	517	133
CHILD CARE ATTENDANTS	173	182	204	18	9	9	65	43	22
CHILD CARE WORKERS	2016	2057	2168	155	114	41	585	474	111
ELEVATOR OPERATORS	264	272	295	44	36	8	181	158	23
HAIRDRESSERS,COSMETOLOGISTS	6018	6205	6611	412	225	187	1379	973	406
COSMETOLOGISTS/WM'S HAIRSTYLI	5484	5659	6050	382	207	175	1281	890	391
MANICURISTS	185	169	195	10	6	4	35	29	6
SCALP TREATMENT OPERATORS	61	63	68	4	2	2	14	9	5
SHAMPOOERS	288	294	298	16	10	6	49	45	4
SCHOOL MONITORS	571	564	546	7	14	-7	37	55	-18
USHERS,LOBBY ATTNS,TICKET TAKER	708	741	829	55	22	33	184	96	88
WELFARE SERVICE AIDES	1588	1656	1824	140	72	68	480	312	168
PROTECTIVE SERVICE WORKERS	24736	25251	27459	1902	1387	515	8179	5971	2208
CROSSING GUARDS,BRIDGETENDERS	1601	1636	1787	246	211	35	1055	904	151
CROSSING OR BRIDGE TENDERS	583	594	642	88	77	11	374	326	48
SCHOOL CROSSING GUARDS	1018	1042	1145	158	134	24	681	578	103
FIREFIGHTERS	3763	3651	4231	146	58	88	640	260	380
FIRE FIGHTERS	2906	2975	3268	115	46	69	494	201	293
FIRE INSPECTORS	118	120	132	3	1	2	20	8	12
FIRE OFFICERS	736	756	830	29	11	18	125	51	74
GUARDS	11424	11668	12639	1200	956	244	5072	4101	971
GUARDS & DOORKEEPERS	9886	10140	11050	1086	832	254	4490	3580	910
CHECKERS,FITTING ROOM	150	154	162	16	12	4	61	53	8
FISH & GAME WARDENS	31	31	32	1	1	0	7	6	1
CORRECTION OFFICERS &/OR JAIL	1350	1337	1388	98	111	-13	511	460	51
U.S. MARSHALLS	12	12	13	0	0	0	1	0	1
POLICE & DETECTIVES	7663	8010	8715	297	150	147	1359	654	705
STORE DETECTIVES	383	393	415	17	7	10	53	31	22
RAILROAD POLICE	16	16	17	0	0	0	2	1	1
POLICE OFFICERS	1324	1347	1463	48	25	23	226	110	116
POLICE DETECTIVES	683	696	764	26	13	13	125	57	68
POLICE PATROLMEN/WOMEN	5204	5300	5771	197	101	96	905	434	471
PARKING ENFORCEMENT OFFICERS	252	258	284	10	4	6	47	21	26
SHERIFFS & BAILIFFS	72	71	73	11	12	-1	54	52	2
BAILIFFS	69	68	70	11	12	-1	52	50	2
OTHER SERVICE WORKERS	9558	9792	10471	442	208	234	1573	894	679
SUPERVISORS,NONWORKING,SERVICE	2663	2950	3190	165	78	87	580	340	240
ALL OTHER SERVICE WORKERS	6694	6841	7280	277	130	147	993	554	439
LABORERS,EXCEPT FARM	72956	74194	77671	2863	1625	1238	10371	6894	3477
ANIMAL CARETAKERS	260	269	299	18	9	9	73	43	30
CONST LABRS,EX CARPNTRS HELPRS	5090	5103	5338	130	117	13	730	495	235

NOTE: OCCUPATIONS WITH LESS THAN 10 WORKERS ARE NOT SHOWN BUT ARE INCLUDED WITHIN GROUP TOTALS. THEREFORE GROUP TOTALS MAY EXCEED THE SUM OF THEIR PARTS.

TABLE 13

OCCUPATIONAL EMPLOYMENT AND LABOR DEMAND 1/
STATEWIDE

OCCUPATIONAL TITLE	EMPLOYMENT 1982 ESTIMATED	1983 PROJECTED	1987 PROJECTED	JOB OPENINGS 1982-1983 TOTAL	REPLACE-MENT 2/	GROWTH	JOB OPENINGS 1983-1987 TOTAL	REPLACE-MENT 2/	GROWTH
AIR HAMMER OPERATORS	214	212	212	2	4	-2	20	20	0
FORM SETTERS,METAL ROAD FORM	17	17	17	0	0	0	1	1	0
FENCE ERECTORS	137	136	137	2	3	-1	14	13	1
PIPELAYERS	597	599	602	16	14	2	60	57	3
REINFORCING-IRON WORKERS	345	343	345	6	8	-2	34	32	2
HIGHWAY MAINTENANCE WORKERS	3635	3650	3880	100	85	15	590	360	230
ASPHALT RAKERS	130	130	129	3	3	0	11	12	-1
FREIGHT,MATERIAL HANDLERS	1223	1244	1319	49	28	21	207	132	75
CHAIN OFFBEARERS,LUMBER	55	55	57	1	1	0	8	6	2
LOADERS,CAR & TRUCK	20	20	22	0	0	0	4	2	2
OFF-BEARERS	94	97	99	5	2	3	12	10	2
VENEER DRIER FEEDERS	18	18	19	0	0	0	2	1	1
LOADERS,TANK CARS &/OR TRUCKS	106	110	122	6	2	4	24	12	12
CONVEYOR OPERATORS OR TENDERS	782	802	858	40	20	20	145	89	56
WORK DISTRIBUTORS	124	119	118	-2	3	-5	11	12	-1
GARBAGE COLLECTORS	718	735	790	32	15	17	122	67	55
GARDENRS,GROUNDSKEEPRS,EX FARM	5081	5204	5605	435	312	123	1739	1338	401
TIMBERCUTTING,LOGGING WORKERS	19	19	21	0	0	0	2	0	2
FALLERS &/OR BUCKERS	12	12	13	0	0	0	1	0	1
STOCK HANDLERS	14641	15010	15860	541	172	369	1581	731	850
ORDER FILLERS	4638	4736	5070	152	54	98	566	232	334
STOCK CLERKS,SALES FLOOR	10002	10274	10790	390	118	272	1015	499	516
VEHICLE WASHERS,EQUIP CLEANERS	1799	1917	2120	154	36	118	363	160	203
CLEANERS,VEHICLE	1789	1907	2111	154	36	118	364	160	204
OTHER LABORERS	44122	44690	46316	1504	936	568	5554	3928	1626
SETTERS &/OR DRAWERS	90	88	81	1	3	-2	7	14	-7
SHAKEOUT WORKERS,FOUNDRY	135	133	136	3	5	-2	25	22	3
FURNACE OP HELPERS/HEATER HEL	112	109	112	1	4	-3	21	18	3
SCRAP SORTERS	29	28	28	0	1	-1	4	4	0
RIGGERS	373	379	393	21	15	6	79	65	14
HELPER,TRADES	11141	11170	11348	290	261	29	1256	1078	178
CANNERY WORKERS	110	113	114	7	4	3	20	19	1
LINE SERVICE ATTENDANTS	147	157	170	16	6	10	40	27	13
FOREST CONSERVATION WORKERS	191	189	195	5	7	-2	38	32	6
SEPTIC TANK SERVICERS,ETC	164	169	187	11	6	5	48	30	18
ALL OTHER UNSKILLED WRKRS	31610	32135	33532	1149	624	525	4015	2618	1397

NOTE: OCCUPATIONS WITH LESS THAN 10 WORKERS ARE NOT SHOWN BUT ARE INCLUDED WITHIN GROUP TOTALS.THEREFORE GROUP TOTALS MAY EXCEED THE SUM OF THEIR PARTS.

1/ DATA INCLUDES ONLY NON-AGRICULTURAL WAGE & SALARIED AND SELF EMPLOYED WORKERS.

2/ REPLACEMENT OPENINGS ARE THOSE RESULTING FROM DEATHS, RETIREMENT OF VOLUNTARY SEPARATIONS FROM THE LABOR FORCE.

PREPARED BY:

OFFICE OF RESEARCH AND INFORMATION
JUNE 1982

TABLE 13A

ESTIMATED AND PROJECTED EMPLOYMENT BY OCCUPATIONAL GROUP

OCCUPATIONAL GROUP	1982	1983	1987
Professional, Technical, Kindred Workers	281,073	286,529	302,231
Engineers	28,093	28,719	30,247
Life & Physical Scientists	3,447	3,529	3,765
Mathematical Specialists	2,217	2,276	2,422
Engineering, Science Technicians	25,705	26,339	27,933
Medical Workers, Ex. Technicians	34,416	35,666	39,558
Health Technologists & Technicians	20,019	20,723	23,086
Technicians, Ex. Health or S&E	5,656	5,792	6,06
Computer Specialists	11,464	11,812	12,681
Social Scientists	2,913	2,963	3,123
Teachers	57,983	57,385	55,930
Writers, Artists & Entertainers	14,097	14,480	15,648
Other Professional & Technical Workers	75,057	76,840	81,770
Managers, Officials & Proprietors	133,021	136,232	143,652
Sales Managers	4,878	5,005	5,299
Administrators, Public Inspectors	1,957	1,959	2,070
Other Managers, Officials, Proprietors	126,185	129,267	136,283
Sales Workers	95,413	97,866	103,504
Insurance Agents, Brokers, Etc.	3,057	3,142	3,350
Real Estate Agents, Brokers	1,750	1,792	1,954
Stock & Bond Sales Agents	1,247	1,278	1,383
Clerical Workers	324,079	331,590	350,852
Stenographers, Typists & Secretaries	67,251	68,769	73,138
Office Machine Operators	17,951	18,501	19,959
Other Clerical Workers	238,876	244,319	257,754
Crafts & Kindred Workers	167,146	169,830	176,777
Construction Crafts Workers	36,878	37,055	37,782
Blue Collar Worker Supervisors	19,618	19,954	20,74
Metal Working Crafts Workers, Ex. Mechanics	25,676	26,095	26,966
Mechanics, Repairers, Installers	30,555	31,292	33,059
Printing Trade Crafts Workers	8,744	8,826	9,613
Transp., Public Utilities, Craft Workers	4,326	4,383	4,525
Other Crafts, Kindred Workers	41,346	42,223	44,080
Operatives	217,565	222,029	227,767
Operatives, Ex. Transportation	146,854	149,511	151,844
Transp. Equipment Operatives	45,692	47,219	49,866
All Other Semiskilled Workers	25,019	25,298	26,056
Service Workers	203,677	210,193	228,466
Cleaning Service Workers	41,537	42,603	45,465
Food Service Workers	88,423	91,746	100,066

TABLE 13A

OCCUPATIONAL GROUP	1982	1983	1987
Service Workers (Cont.)			
Health Service Workers	22,261	23,119	26,080
Personal Service Workers	17,160	17,680	18,943
Protective Service Workers	24,736	25,251	27,459
Other Service Workers	9,558	9,792	10,451
Laborers, Ex. Farm	72,956	74,194	77,610
Animal Caretakers	260	269	299
Const. Laborers, Ex. Carpenters' Helpers	5,090	5,103	5,338
Freight, Material Handlers	1,223	1,244	1,319
Garbage Collectors	718	735	790
Gardeners, Groundskeepers, Ex. Farm	5,081	5,204	5,605
Stock Handlers	14,641	15,010	15,860
Vehicle Washers, Equipment Cleaners	1,799	1,917	2,120
Other Laborers	44,122	44,690	46,255

FASTEST GROWING OCCUPATIONS
CONNECTICUT
TABLE 13B

	PROJECTED EMPLOYMENT			EMPLOYMENT CHANGE 1982-1987	
OCCUPATION	1982	1983	1987	NET	PERCENT
1) Janitors and Sextons	41537	42603	45704	4167	10.0
Major Industry Concentration:					
Misc. Business Services	9915	10170	10910	995	10.0
Educational Services	7611	7807	8375	764	10.0
2) Waiters/Waitresses	27234	28386	31197	3963	14.6
Major Industry Concentration:					
Eating & Drinking Places	22881	23849	26210	3329	14.5
Hotels & Other Lodging Places	1432	1493	1641	209	14.6
3) General Clerks, Office	43682	44671	47637	3955	9.1
Major Industry Concentration:					
Misc. Business Services	3994	4084	4355	361	9.0
State Government	2617	2677	2854	237	9.1
4) Secretaries	44496	45493	48347	3851	8.7
Major Industry Concentration:					
Health Services	3309	3383	3596	287	8.7
Legal Services	3057	3125	3321	264	8.6
5) Sales Clerks	47079	48352	50737	3658	7.8
Major Industry Concentration:					
General Merchandise Stores	16355	16797	17626	1271	7.8
Misc. Retail Stores	8735	8971	9414	679	7.8
6) Nurses, Professional	20262	20989	23438	3176	15.7
Major Industry Concentration:					
Hospitals	10485	10861	12128	1643	15.7
Nursing & Personal Care Facilities	3968	4111	4590	622	15.7
7) Nurses Aides/Orderlies	17925	18617	21038	3113	17.4
Major Industry Concentration:					
Health Services	15358	15951	18025	2667	17.4
Social Services	1657	1721	1945	288	17.4
8) Food Preperation and Service Workers, Fast Food Restaurants	12958	13506	14843	1885	14.5
Major Industry Concentration:					
Eating & Drinking Places	12493	13022	14311	1818	14.6
Misc. Retail Stores	429	447	491	62	14.5
9) Truck Drivers	19531	20123	21412	1881	9.6
Major Industry Concentration:					
Trucking & Warehousing	5695	5868	6244	549	9.6
Wholesale Trade, Durable Goods	2103	2167	2306	203	9.7
10) Cashiers	22142	22731	23994	1852	8.4
Major Industry Concentration:					
Food Stores	9510	9763	10306	796	8.4
General Merchandise Stores	3773	3873	4089	316	8.4
11) Kitchen Helpers	13733	14229	15572	1839	13.4
Major Industry Concentration:					
Eating & Drinking Places	6276	6503	7116	840	13.4
Health Services	3945	4087	4473	527	13.4
12) Typists	18286	18699	19925	1639	9.0
Major Industry Concentration:					
Insurance Carriers	2298	2350	2504	206	9.0
Health Services	1622	1659	1767	145	8.9

FASTEST GROWING OCCUPATIONS
CONNECTICUT
TABLE 13B

		PROJECTED EMPLOYMENT			EMPLOYMENT CHANGE 1982-1987	
	OCCUPATION	1982	1983	1987	NET	PERCENT
13)	Bookkeepers, Hand	15814	16239	17350	1536	9.7
	Major Industry Concentration:					
	Automobile & Rec. Veh. Dealers	1530	1571	1679	149	9.7
	Misc. Retail Stores	1382	1419	1516	134	9.7
14)	Accountants and Auditors	14119	14454	15425	1306	9.2
	Major Industry Concentration:					
	Misc. Services	2315	2370	2529	214	9.2
	Insurance Carriers	1499	1535	1638	139	9.3
15)	Delivery and Route Workers	12224	12598	13449	1225	10.0
	Major Industry Concentration:					
	Wholesale Trade, Nondurable Goods	2822	2909	3105	283	10.0
	Misc. Retail Stores	1456	1501	1602	146	10.0
16)	Stock Clerks, Stockroom, Warehouse	14505	14847	15684	1179	8.1
	Major Industry Concentration:					
	Wholesale Trade, Nondurable Goods	2089	2138	2259	170	8.1
	Wholesale Trade, Durable Goods	1726	1766	1866	140	8.1
17)	Guards and Doorkeepers	9886	10140	11050	1164	11.8
	Major Industry Concentration:					
	Misc. Business Services	5326	5463	5953	627	11.8
	Transportation Equipment	506	519	566	60	11.9
18)	Supervisors, Nonworking	19616	19952	20778	1162	5.9
	Major Industry Concentration:					
	Transportation Equipment	3375	3432	3574	199	5.9
	Fabricated Metal Products	1995	2029	2113	118	5.9
19)	Licensed Practical Nurses	6919	7195	8042	1123	16.2
	Major Industry Concentration:					
	Health Services	5907	6142	6865	958	16.2
	Misc. Business Services	531	552	617	86	16.2
20)	Automotive Mechanics	11130	11432	12209	1079	9.7
	Major Industry Concentration:					
	Automobile & Rec. Veh. Dealers	5803	5960	6365	562	9.7
	Automobile Repair, Services, Garage	1484	1524	1628	144	9.7

FASTEST DECLINING OCCUPATIONS
CONNECTICUT
TABLE 13C

OCCUPATION	PROJECTED EMPLOYMENT			EMPLOYMENT CHANGE 1982-1987	
	1982	1983	1987	NET	PERCENT
1) Elementary School Teachers	19907	19647	19014	-893	- 4.5
Major Industry Concentration:					
Educational Services	19907	19647	19014	-893	- 4.5
2) Secondary School Teachers	19170	18920	18310	-860	- 4.5
Major Industry Concentration:					
Educational Services	19170	18920	18310	-860	- 4.5
3) Teachers, College and University	9663	9562	9310	-353	- 3.7
Major Industry Concentration:					
Educational Services	9663	9562	9310	-353	- 3.7
4) Sewers and Stitchers	6898	6727	6690	-208	- 3.0
Major Industry Concentration:					
Apparel & Accessories	4518	4406	4382	-136	- 3.0
Misc. Fabricated Textile Products	483	471	468	- 15	- 3.1
5) Teachers Aides (exc. Monitors)	5581	5530	5404	-177	- 3.2
Major Industry Concentration:					
Educational Services	5312	5263	5143	-169	- 3.2
Social Services	269	267	261	- 8	- 2.9
6) Mail Carriers, Postal Service	7775	7697	7636	-139	- 1.8
Major Industry Concentration:					
Federal Government	7775	7697	7639	-139	- 1.8
7) Graduate Assistants	2047	2021	1956	- 91	- 4.5
Major Industry Concentration:					
Educational Services	2047	2021	1956	- 91	- 4.5
8) Spinners, Frame	322	319	282	- 40	-12.5
Major Industry Concentration:					
Textile Mill Products	311	308	273	- 38	-12.8
9) Press Operators	386	372	347	- 39	-10.1
Major Industry Concentration:					
Laundry, Cleaning & Garment Services	252	242	226	- 26	-10.3
Women's & Misses' Outerwear	65	62	58	- 7	-10.8
10) Yarn Winders	297	292	259	- 38	-12.8
Major Industry Concentration:					
Textile Mill Products	297	292	259	- 38	-12.8
11) Doffers	194	191	170	- 24	-12.3
Major Industry Concentration:					
Textile Mill Products	194	191	170	- 24	-12.3
12) Power Press Tenders	161	156	146	- 15	- 9.3
Major Industry Concentration:					
Stone, Clay, Glass & Concrete Products	157	152	142	- 15	- 9.5

FASTEST DECLINING OCCUPATIONS
CONNECTICUT
TABLE 13C

OCCUPATION	PROJECTED EMPLOYMENT			EMPLOYMENT CHANGE 1982-1987	
	1982	1983	1987	NET	PERCENT
1) Elementary School Teachers	19907	19647	19014	-893	- 4.5
Major Industry Concentration:					
Educational Services	19907	19647	19014	-893	- 4.5
2) Secondary School Teachers	19170	18920	18310	-860	- 4.5
Major Industry Concentration:					
Educational Services	19170	18920	18310	-860	- 4.5
3) Teachers, College and University	9663	9562	9310	-353	- 3.7
Major Industry Concentration:					
Educational Services	9663	9562	9310	-353	- 3.7
4) Sewers and Stitchers	6898	6727	6690	-208	- 3.0
Major Industry Concentration:					
Apparel & Accessories	4518	4406	4382	-136	- 3.0
Misc. Fabricated Textile Products	483	471	468	- 15	- 3.1
5) Teachers Aides (exc. Monitors)	5581	5530	5404	-177	- 3.2
Major Industry Concentration:					
Educational Services	5312	5263	5143	-169	- 3.2
Social Services	269	267	261	- 8	- 2.9
6) Mail Carriers, Postal Service	7775	7697	7636	-139	- 1.8
Major Industry Concentration:					
Federal Government	7775	7697	7639	-139	- 1.8
7) Graduate Assistants	2047	2021	1956	- 91	- 4.5
Major Industry Concentration:					
Educational Services	2047	2021	1956	- 91	- 4.5
8) Spinners, Frame	322	319	282	- 40	-12.5
Major Industry Concentration:					
Textile Mill Products	311	308	273	- 38	-12.8
9) Press Operators	386	372	347	- 39	-10.1
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Laundry, Cleaning & Garment Services	252	242	226	- 26	-10.3
Women's & Misses' Outerwear	65	62	58	- 7	-10.8
10) Yarn Winders	297	292	259	- 38	-12.8
Major Industry Concentration:					
Textile Mill Products	297	292	259	- 38	-12.8
11) Doffers	194	191	170	- 24	-12.3
Major Industry Concentration:					
Textile Mill Products	194	191	170	- 24	-12.3
12) Power Press Tenders	161	156	146	- 15	- 9.3
Major Industry Concentration:					
Stone, Clay, Glass & Concrete Products	157	152	142	- 15	- 9.5

TABLE 14

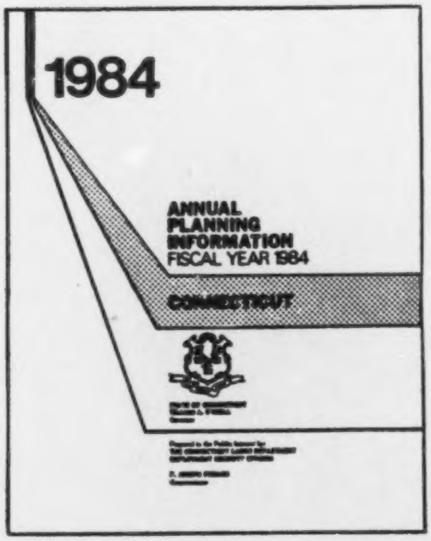
OCCUPATIONAL STAFFING PATTERNS
CONNECTICUT HIGH TECHNOLOGY INDUSTRIES

1978

Percent Distribution

SIC	Industry Title	Total*	Professional and Technical	Managers and Officials	Clerical Workers	Craftworkers	Operatives	Service Workers	Laborers
283	Drugs	100.0	29.5	6.3	8.8	17.0	31.1	4.4	2.5
351	Engines & Turbines	100.0	34.8	12.8	14.6	18.5	16.2	1.2	1.0
361	Elec. Transmissions & Dist. Equip.	100.0	12.7	4.0	19.0	13.1	42.6	1.8	6.2
362	Electric Industrial Apparatus	100.0	17.2	10.1	14.9	10.1	44.6	1.7	0.4
365	Radio & TV Receiving Equip.	100.0	15.8	8.2	13.8	15.6	44.7	INA	INA
366	Communications Equip.	100.0	27.9	17.5	17.6	8.1	25.2	1.2	0.5
367	Electronic Components & Accessories	100.0	14.2	6.3	10.9	14.1	47.4	1.3	4.2
37	Transportation Equipment	100.0	24.5	4.9	11.4	26.9	27.4	2.1	2.5
381	Engineering & Scientific Inst.	100.0	33.3	7.9	19.0	11.0	26.0	0.5	0.4
382	Measuring & Controlling Inst.	100.0	17.2	8.0	16.3	16.8	35.2	1.3	1.2
383&4	Surgical, Medical & Optical Inst.	100.0	22.4	9.3	14.2	13.2	30.7	2.2	6.8

* - A sum of the parts may not equal 100.0 due to rounding.
INA - Information not available.



1984

ANNUAL
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FISCAL YEAR 1984

CONNECTICUT

Trends in Unemployment

Trends in Unemployment

In fiscal year 1984 the state's unemployment rate is forecast to be 6.8 percent of the labor force or 111,514 persons. Joblessness is expected to be considerably higher among nonwhite workers than among those that are white. Nonwhite women are expected to have the highest jobless rate, 12.0 percent, with average unemployment at 9,106 persons. The highest jobless rates are expected among those nonwhite women between the ages of 16 and 24. Nonwhite males are projected to have a jobless rate of 11.9 percent also with the greatest amount of joblessness in the age groups between 16 and 24.

The fiscal year 1984 projected unemployment rate for white women is 6.3 percent, slightly higher than the 6.2 percent anticipated for white men. Teen-age joblessness will be the problem as the heaviest concentration of unemployment for both white women and men is anticipated among persons 16 to 19 years of age. For white males the jobless rate is expected to be high also among young men 20 to 24 years of age.

The statewide jobless average increased from 98,000 or 6.2 percent of the labor force in 1981 to 111,000 or 6.9 percent in 1982. Unemployment exceeded that of the corresponding month in 1981 in every month of 1982. Seasonal patterns were followed during 1981 as unemployment ebbed during the spring before rising seasonally to a high for the year of 102,600 or 6.4 percent of the labor force in July. From September through December 1981, the state's jobless level edged upward from 88,300 or 5.5 percent to 99,800 or 6.2 percent. In January 1982 unemployment increased sharply to 115,900 or 7.3 percent then further to 116,100 or 7.3 percent in February before edging downward under seasonal influences to 105,700 or 6.6 percent in May.

During the summer months joblessness rose seasonally with the entrance into the labor force of recent graduates and temporary student workers, reaching a high of 114,400 or 7.0 percent in July. However, joblessness showed no appreciable decline in the fall, ranging between 105,500 or 6.5 percent in September 1982 to 113,500 or 7.0 percent in December. A table of projected unemployment by age, race and sex (table 15) is attached to this report.

TABLE: 15

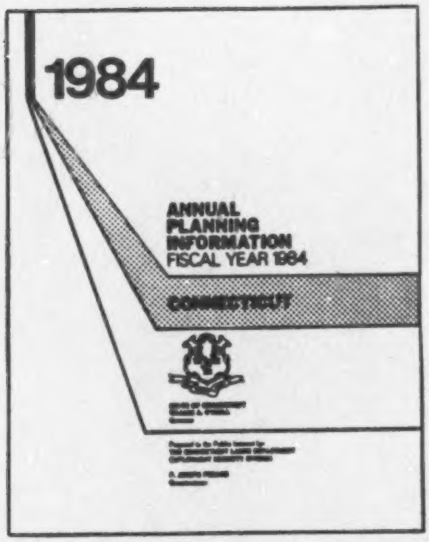
PROJECTED NUMBER OF UNEMPLOYED, FISCAL YEAR 1984

Connecticut	Persons Unemployed	Unemployment Rate
TOTAL	111,514	6.8
16-17 Years	12,556	20.3
18-19	8,045	12.6
20-24	19,613	10.3
25-34	31,289	7.4
35-44	18,173	5.0
45-64	19,432	4.1
65+	2,406	4.1
WHITE MALES	50,219	6.2
16-17 Years	4,722	18.2
18-19	3,624	12.8
20-24	9,503	11.0
25-34	15,164	7.1
35-44	7,570	4.3
45-64	8,513	3.5
65+	1,123	3.6
WHITE FEMALES	42,674	6.3
16-17 Years	6,071	20.9
18-19	2,978	10.3
20-24	6,120	7.6
25-34	10,503	6.6
35-44	7,511	4.8
45-64	8,445	4.3
65+	1,046	4.4
NONWHITE MALES	9,514	11.9
16-17 Years	876	24.7
18-19	758	22.2
20-24	1,880	14.9
25-34	3,197	12.2
35-44	1,347	8.6
45-64	1,260	7.4
65+	196	11.6
NONWHITE FEMALES	9,107	12.0
16-17 Years	888	28.6
18-19	685	19.9
20-24	2,110	18.5
25-34	2,425	10.6
35-44	1,745	10.8
45-64	1,214	6.8
65+	40	3.2

TABLE: 16

UNEMPLOYMENT BY MONTH

	1981		1982		
Connecticut	Number Unemployed	Percent of Labor Force	Number Unemployed	Percent of Labor Force	Net Change 1981 to 1982
January	108,000	6.9	115,900	7.3	+ 7,900
February	105,800	6.8	116,100	7.3	+10,300
March	100,500	6.4	112,500	7.1	+12,000
April	97,200	6.1	109,500	6.8	+12,300
May	91,000	5.7	105,700	6.6	+14,700
June	99,500	6.2	111,600	6.8	+12,100
July	102,600	6.4	114,400	7.0	+11,800
August	98,800	6.3	107,300	6.7	+ 8,500
September	88,300	5.5	105,500	6.5	+17,200
October	90,500	5.7	110,700	6.9	+20,200
November	93,900	5.9	109,300	6.8	+15,400
December	99,800	6.2	113,500	7.0	+13,700
Statewide Annual Average	98,000	6.2	111,000	6.9	+13,000



1984

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CONNECTICUT

Characteristics of the Insured Unemployed

Characteristics of the Insured Unemployed

In mid-May 1983, the number of people in Connecticut receiving unemployment insurance totalled 39,083. Of this total, almost two-thirds were new. By age grouping 68 percent, or 26,588 were under 45 years of age and 70 percent of these people (17,802) were men. In this younger age category, the largest concentration of claimants (11,634) was in the 25 to 34 age cohort. Of this group, 8,071 were men.

A little less than one half of the claimants, 18,482 or 47.3 percent, had manufacturing employment backgrounds. Those formerly employed in construction occupations represented 14.5 percent of the total while former wholesale and retail trade employees made up 18.8 percent. Those who formerly held service jobs comprised 13.5 percent. Among claimants with manufacturing backgrounds, seven out of ten had been connected with the metallic industries.

Length of employment ranged from 5 to 14 weeks, 44.3 percent; 15 to 26 weeks, 35.0 percent; 3 to 4 weeks, 10.9 percent and 1 to 2 weeks, 9.6 percent.

By occupation, the three categories which showed the most sizeable number of claimants were the structural work category, 6,709; the clerical and sales group, 6,460; and the machine trade component, 6,369.

CONNECTICUT ESD - FEDERAL SAMPLE
ES-203 - CHARACTERISTICS OF THE INSURED UNEMPLOYED
SURVEY PERIOD MAY 15 - 21, 1983

TOTAL - ALL LMAS
TABLE 17 AGE AND SEX OF THE INSURED UNEMPLOYED

PROCESS CODES	AGE IN YEARS	TOTAL	PERCENT	MEN	PERCENT	WOMEN	PERCENT	INA
00	TOTAL	39,083	100.000	25,226	100.000	13,857	100.000	0
10	TOTAL UNDER 45	26,588	68.030	17,802	70.570	8,786	63.405	0
20	UNDER 25	7,154	18.305	4,737	18.778	2,417	17.442	0
30	25 - 34	11,634	29.767	8,071	31.995	3,563	25.713	0
40	35 - 44	7,800	19.958	4,994	19.797	2,806	20.250	0
50	TOTAL 45 & OVER	12,495	31.970	7,425	29.434	5,070	36.588	0
60	45 - 54	6,036	15.444	3,737	14.814	2,299	16.591	0
70	55 - 64	5,508	14.093	3,174	12.582	2,334	16.843	0
80	65 & OVER	952	2.436	514	2.038	438	3.161	0
90	INA	0	0.000	0	0.000	0	0.000	0

UNIVERSE 39,083
TOTAL WKS 5,627
EXPANSION FACTOR 6.94561934

CONNECTICUT ESD - FEDERAL SAMPLE
ES-203 - CHARACTERISTICS OF THE INSURED UNEMPLOYED
SURVEY PERIOD MAY 15 - 21, 1963

TOTAL - ALL LMAS
TABLE18 INDUSTRY ATTACHMENT, BY SEX AND DURATION

PROCESS CODES	INDUSTRY	TOTAL NUMBER	TOTAL PERCENT	NUMBER BY SEX INA	NUMBER BY SEX MEN	NUMBER BY SEX WOMEN	NUMBER BY WEEKS OF CURRENT UNEMPLOYMENT 1-2	3-4	5-14	15-26	27-52	53-OVER	ARITHMETIC MEAN
000	TOTAL	39,083	100.000	0	25,226	13,857	3,785	4,265	17,308	13,697	28	0	11.3
100	MINING	14	0.036	0	0	14	0	0	0	14	0	0	15.9
200	CONSTRUCTION	5,647	14.449	0	5,418	229	528	486	2,507	2,125	0	0	11.8
300	MANUFACTURING	18,482	47.289	0	11,342	7,140	1,889	1,924	8,133	6,536	0	0	11.4
320	FOOD	507	1.297	0	326	181	49	69	125	264	0	0	12.1
321	TOBACCO	14	0.036	0	14	0	0	0	0	14	0	0	21.9
322	TEXTILE MILL	528	1.351	0	236	292	63	56	132	278	0	0	13.8
323	APPAREL	729	1.865	0	174	556	111	167	215	236	0	0	10.0
324	LUMBER	118	0.302	0	118	0	21	14	69	14	0	0	7.5
325	FURNITURE	396	1.013	0	257	139	7	83	139	167	0	0	12.0
326	PAPER	250	0.640	0	160	90	14	56	56	125	0	0	12.3
327	PRINTING	771	1.973	0	458	313	42	97	389	243	0	0	11.0
328	CHEMICALS	375	0.959	0	139	236	69	56	125	125	0	0	10.1
329	PETROLEUM	28	0.072	0	28	0	0	14	0	14	0	0	12.4
330	RUBBER	590	1.510	0	354	236	63	139	222	167	0	0	10.0
331	LEATHER	90	0.230	0	14	76	35	28	14	14	0	0	6.6
332	STONE	396	1.013	0	319	76	35	42	139	181	0	0	12.2
333	PRIMARY METAL	1,723	4.409	0	1,181	542	271	208	556	688	0	0	11.6
334	FABRICATED MTL	3,403	8.707	0	2,181	1,222	257	250	1,542	1,354	0	0	12.2
335	MACHINERY	2,848	7.287	0	2,160	688	229	285	1,459	875	0	0	11.0
336	ELEC MACHINERY	2,334	5.972	0	1,250	1,084	306	146	1,084	799	0	0	11.2
337	TRANSPORTATION	1,452	3.715	0	1,021	431	132	97	931	292	0	0	10.5
338	INSTRUMENTS	1,104	2.825	0	438	667	139	76	549	340	0	0	10.9
339	MISC MFG	827	2.116	0	514	313	49	42	389	347	0	0	12.3
400	TRANS PUB UTIL	1,153	2.950	0	847	306	118	125	576	319	14	0	10.9
500	WHLSL RTL TRADE	7,335	18.768	0	4,181	3,153	625	868	3,264	2,563	14	0	11.3
600	FIN INS REL EST	597	1.528	0	319	278	42	97	250	208	0	0	11.3
700	SERVICES	5,293	13.543	0	2,764	2,528	535	695	2,424	1,639	0	0	10.7
900	PUBLIC ADMIN	361	0.924	0	181	181	28	56	153	125	0	0	11.6
990	ALL OTHER	188	0.481	0	174	14	7	14	0	167	0	0	17.8
999	INA	14	0.036	0	0	14	14	0	0	0	0	0	2.0

UNIVERSE 39,083
TOTAL WKS 5,627
EXPANSION FACTOR 6.94561934

CONNECTICUT ESD - FEDERAL SAMPLE
ES-203 - CHARACTERISTICS OF THE INSURED UNEMPLOYED
SURVEY PERIOD MAY 15 - 21, 1983

TOTAL - ALL LMAS
TABLE 19 CURRENT DURATION BY OCCUPATION

OCCUPATIONAL CLASSIFICATION		LINE NO.	TOTAL	PERCENT	NUMBER BY WEEKS OF CURRENT UNEMPLOYMENT 1-2	3-4	5-14	15-26	27-52	53-OVER	ARITHMETIC MEAN
TOTAL -LINES 010,020,030,040,050, 060,070,080,090,099-		001	39,083	100.000	3,785	4,265	17,308	13,697	28	0	11.3
0, 1 - TOTAL PROF., TECH., & MGR.		010	5,244	13.418	410	563	2,445	1,827	0	0	11.5
2	TOTAL -LINES 021 & 022-	020	6,460	16.560	439	764	3,098	2,181	0	0	11.2
CLERICAL	20-24 CLERICAL	021	4,917	12.581	389	616	2,362	1,549	0	0	10.9
& SALES	25-29 SALES	022	1,563	3.999	49	146	736	632	0	0	12.1
3	TOTAL -LINES 031 & 032-	030	2,771	7.090	222	354	1,236	958	0	0	11.3
SERVICES	30 DOMESTIC	031	76	0.194	7	14	42	14	0	0	8.9
	31-39 SERVICE, OTHER	032	2,695	6.896	215	340	1,195	945	0	0	11.4
4 - TOTAL FARMING, FISHERY, FORESTRY, & RELATED		040	319	0.816	56	14	97	153	0	0	13.7
5	TOTAL -LINES 051 - 053-	050	1,000	2.559	146	118	375	361	0	0	11.4
PROCESSING	HIGH	051	354	0.906	56	49	139	111	0	0	10.9
	MEDIUM	052	646	1.653	90	69	236	250	0	0	11.6
	LOW	053	0	0.000	0	0	0	0	0	0	
6	TOTAL -LINES 061 - 063-	060	6,369	16.296	445	576	3,167	2,181	0	0	11.9
MACHINE	HIGH	061	3,146	8.050	264	285	1,792	806	0	0	10.9
TRADE	MEDIUM	062	3,223	8.247	181	292	1,375	1,375	0	0	12.9
	LOW	063	0	0.000	0	0	0	0	0	0	
7	TOTAL -LINES 071 - 073-	070	3,598	9.206	319	354	1,445	1,479	0	0	12.1
	HIGH	071	590	1.510	42	56	278	215	0	0	11.6
BENCH WORK	MEDIUM	072	3,007	7.694	278	299	1,167	1,264	0	0	12.2
	LOW	073	0	0.000	0	0	0	0	0	0	
8	TOTAL -LINES 081 - 083-	080	6,709	17.166	688	556	3,056	2,410	0	0	11.4
STRUCTURAL	HIGH	081	3,064	7.891	347	319	1,403	1,014	0	0	11.0
WORK	MEDIUM	082	3,626	9.278	340	236	1,653	1,396	0	0	11.8
	LOW	083	0	0.000	0	0	0	0	0	0	
9	TOTAL -LINES 091 - 093-	090	4,160	10.644	458	500	1,500	1,688	14	0	11.7
	HIGH	091	632	1.617	42	97	285	208	0	0	10.1
MISC.	MEDIUM	092	3,528	9.027	417	403	1,215	1,479	14	0	12.0
	LOW	093	0	0.000	0	0	0	0	0	0	
INA 10	INFORMATION NOT AVAIL.	099	2,431	6.220	604	465	889	458	14	0	7.8

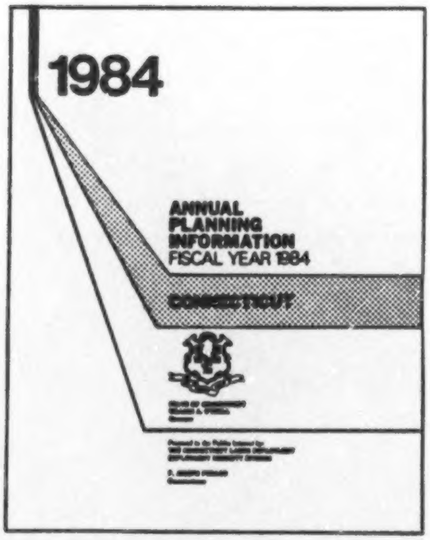
UNIVERSE 39,083
TOTAL WRS 5,627
EXPANSION FACTOR 6.94561934

CONNECTICUT ESD - FEDERAL SAMPLE
ES-203 - CHARACTERISTICS OF THE INSURED UNEMPLOYED
SURVEY PERIOD MAY 15 - 21, 1983

TOTAL - ALL LMAS
TABLE 20 AGE AND SEX BY CURRENT DURATION

PROCESS CODES	WEEKS OF CURRENT UNEMPLOYMENT	TOTAL NUMBER	PERCENT	NUMBER BY AGE UNDER 45 YEARS	45 YEARS & OVER	INA
000	TOTAL	39,063	100.000	26,568	12,495	0
010	1 - 2	3,785	9.685	2,507	1,278	0
020	3 - 4	4,265	10.913	2,869	1,396	0
030	5 -14	17,308	44.285	11,745	5,563	0
040	15 -26	13,697	35.046	9,439	4,258	0
050	27 -52	28	0.072	28	0	0
060	53 & OVER	0	0.000	0	0	0
100	MEN	25,226	100.000	17,802	7,425	0
110	1 - 2	2,375	9.415	1,570	806	0
120	3 - 4	2,424	9.609	1,736	688	0
130	5 -14	11,426	45.295	7,967	3,459	0
140	15 -26	8,988	35.630	6,515	2,473	0
150	27 -52	14	0.055	14	0	0
160	53 & OVER	0	0.000	0	0	0
200	WOMEN	13,857	100.000	8,786	5,070	0
210	1 - 2	1,410	10.175	938	472	0
220	3 - 4	1,841	13.286	1,132	709	0
230	5 -14	5,883	42.455	3,778	2,105	0
240	15 -26	4,709	33.983	2,924	1,785	0
250	27 -52	14	0.101	14	0	0
260	53 & OVER	0	0.000	0	0	0
300	INA	0	0.000	0	0	0

UNIVERSE 39,063
TOTAL WKS 5,627
EXPANSION FACTOR 6.94561934



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CONNECTICUT

Active Applicants and Job Service Unfilled Job Openings

Active Applicants and Job Service Unfilled Job Openings

The total number of applicants seeking employment exceeded the number of jobs on file with the Connecticut Job Service offices by a ratio of nine to one in May 1983. For an aggregate 11,955 unfilled openings there were 108,497 applicants. About 24 percent of the applicants (26,403) had backgrounds in clerical and sales occupations and almost 16 percent (17,147) had service experience. Available jobs listed in these occupational categories numbered 2,858 and 2,711 and showed applicant to job opening ratios of nine to one and six to one respectively. Professional, technical and managerial applicants numbered 13,845 with 1,374 available positions for a ratio of ten applicants to one opening. Machine trades applicants totaled 12,671 with 634 jobs for a ratio of twenty to one. Structural work applicants were 9,866 with 1,639 jobs for a ratio of six to one.

Female applicants at 48.7 percent of the total was up from 46.0 percent a year earlier. The proportion of economically disadvantaged, at 20.0 percent of the total, was down from 25.4 in May 1982. Minority job seekers listed, as a percentage of the total at 32.4 percent, was unchanged from a year earlier. Job applicants who are veterans edged downward from 10.7 percent to 10.3 percent. Applicants under 22 years of age edged off from 19.3 to 18.7 percent. Those persons fifty five years of age or older, proportionally were down from 7.4 to 7.2 percent. Eligible claimants, however, as a proportion of the total, were up sharply over the year, from 34.9 to 42.8 percent.

TABLE: 21

JOB SERVICE APPLICANTS ACTIVELY SEEKING WORK*

	May 1983		May 1982	
Connecticut	Number	Percent	Number	Percent
TOTAL	109,014	100.0	113,229	100.0
Female	53,114	48.7	52,110	46.0
Economically Disadvantaged	21,822	20.0	28,749	25.4
Minority, Total	35,346	32.4	36,712	32.4
Black (Not Hispanic)	21,147	19.4	21,977	19.4
Hispanic	12,731	11.7	13,428	11.9
Handicapped	6,486	5.9	8.318	7.3
Veteran, Total	11,232	10.3	12,084	10.7
Vietnam-Era	4,320	4.0	4,322	3.8
Disabled	475	0.4	573	0.5
Under 22 Years	20,349	18.7	21,815	19.3
55 Years or Older	7,901	7.2	8,406	7.4
Claimants Eligible for Unemployment Compensation	46,671	42.8	39,479	34.9

*The total represented includes all applicants, including those without a DOT code who are not registered by occupation.

TABLE: 22

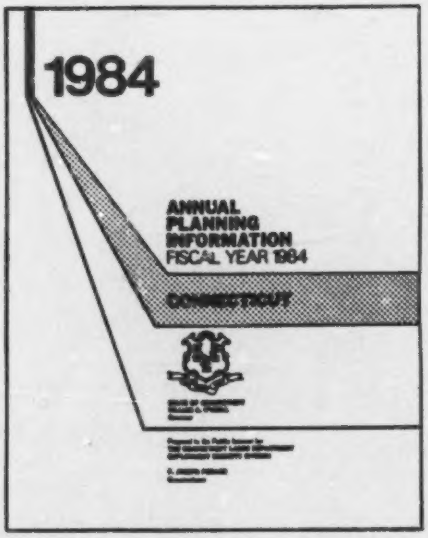
ACTIVE JOB SERVICE APPLICANTS AND JOB BANK OPENINGS*

CONNECTICUT

MAY 1983

Occupation	Applicants	Available Jobs	Ratio, Applicants to Available Job Openings
Professional, Technical and Managerial	13,845	1,374	10:1
Clerical and Sales	26,403	2,858	9:1
Service	17,147	2,711	6:1
Farming, Fishing and Forestry	1,732	438	4:1
Processing Materials	2,066	82	25:1
Machine Trades	12,671	634	20:1
Bench Work	8,082	543	15:1
Structural Work	9,866	1,639	6:1
Miscellaneous	16,685	1,676	10:1
TOTAL	108,497	11,955	9:1

*This total does not include partial registrants with the Job Service who have not yet received a DOT code and are therefore omitted from total applicants by occupation.



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Estimate of Needs for Employment Related Services

Estimate of Needs for Employment Related Services

Persons who will be in need of employment related services in Connecticut are expected to total 441,360 in fiscal year 1984. These are expected to include 376,950 different individuals who will, at some time during the year, experience an interval of joblessness. These will include 162,710 white males and 136,980 white females. Nonwhites are expected to include 39,470 males and 37,790 females. Those persons considered as long-term unemployed, which are expected to be included in this total, will number 27,640. This figure will include 15,850 white males and 6,770 white females. Also included will be 3,350 nonwhite males and 1,670 nonwhite females. These persons are expected to be jobless for fifteen weeks or longer and therefore will be particularly in need of help in securing a job. Others who will be included in the overall number of projected unemployed persons will be an estimated 4,320 unemployed Vietnam veterans as well as 21,822 public assistance recipients who will be registered with the Connecticut Job Service.

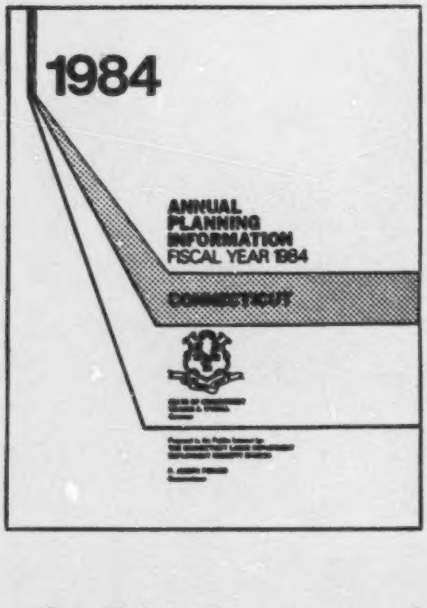
TABLE: 23

PROJECTED NEED FOR EMPLOYMENT RELATED SERVICES

FISCAL YEAR 1984

Connecticut	Total	Males White	Males Nonwhite	Females White	Females Nonwhite
Unemployed	376,950	162,710	39,470	136,980	37,790
Long-Term Unemployed	27,640	15,850	3,350	6,770	1,670
*Unemployed Vietnam Veterans	4,320	-	-	-	-
*Public Assistance Recipients Registered with Connecticut Job Service	21,822	-	-	-	-
Employed Part-Time for Economic Reasons	64,410	23,550	4,940	29,960	5,960
TOTAL	441,360	186,260	44,410	166,940	43,750

*Source: Employment Security Automated Reporting System (ESARS)



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Characteristics of the Economically Disadvantaged

Characteristics of the Economically Disadvantaged

It is projected that in fiscal year 1984, there will be 310,740 persons in Connecticut living below the poverty level. This is anticipated to include 9.8 percent of all persons in the state and a rise of 98,550 over 1970. Of the total persons below the poverty level, 198,390 will be white and 112,350 will be nonwhite, this group comprising black persons and those of other racial groups. Persons in families, numbering 188,350, are expected to make up slightly over 60 percent of the state's poor. This will be an increase of 38,220 since 1970 and will include 103,720 white and 84,630 nonwhite persons. A decline of 11,190 is anticipated in the number of white poor persons in families while the nonwhite poor in families are expected to show an increase of 71,290 over the fourteen-year interval. The 122,390 unrelated persons should include 94,670 whites and 27,720 nonwhites and be 60,330 above, or almost double the total for 1970. Both the white and nonwhite unrelated poor persons totals will post increases since 1970 of 38,450 and 21,880 respectively.

Related children under eighteen below the poverty level are projected to total 88,460 in fiscal 1984. This will be up 9,840 over the fourteen-year interval. Almost two-thirds of these, 55,170, will be from six to seventeen years old, 5,170 above the 1970 total. Slightly over one half of these, 27,760, are expected to be nonwhite and 27,410 will be white. Those related children under six years of age are projected to number 33,290 with 19,220 being white and 14,070 nonwhite. Those children under six years in families with a male head are expected to total 14,900, some 4,760 above fourteen years previously with the majority, 7,630, being white.

Related children six to seventeen years of age in families with a male head are expected to number 12,370 with about 43 percent of thes being white.

Families with female heads are expected to show a total of 42,800 related children between the ages of six and seventeen. Of these, 20,760 are anticipated to be nonwhite. Children under six years of age in families with a female head should number 18,390 with almost two-thirds of these (11,590) being white.

People sixty five years of age and over below the poverty level are projected to total 93,840 in fiscal 1984. This represents an increase of 47,710 in the fourteen year period. Of this number 82,280 are expected to be white and 11,560 nonwhite. In 1970, of the population sixty five years of age and over below the poverty level, these were 43,700 whites and 2,430 nonwhites. As a proportion of older people below the poverty level, nonwhites are expected to show an increase from 5.3 percent in 1970 to 12.3 percent in 1984.

The level of family income used to determine whether or not a person is poor, has been raised by the U. S. Labor Department's Office of Management and Budget to reflect increases in consumer prices over the past year. The revised poverty level guidelines are as follows:

March 1983

New Poverty Guidelines

These levels are for all states except Alaska and Hawaii.

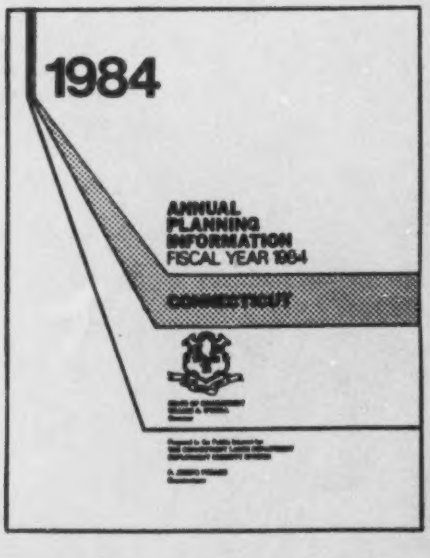
Size of Family Unit	Poverty Income Level
1	$4,860
2	6,540
3	8,220
4	9,900
5	11,580
6	13,260

Income limits for families of more than six persons may be determined by adding for each additional person $1,680.

TABLE: 24

POVERTY LEVEL STATUS BY AGE AND FAMILY AFFILIATION

	1970			1982		
Connecticut	Total	White	Nonwhite	Total	White	Nonwhite
TOTAL PERSONS BELOW POVERTY LEVEL	212,190	171,130	41,060	310,740	198,390	112,350
Persons in Families	150,130	114,910	35,220	188,350	103,720	84,630
Unrelated Persons	62,060	56,220	5,840	122,390	94,670	27,720
POPULATION 65 YEARS OF AGE AND OVER BY POVERTY STATUS	290,040	281,130	8,910	422,130	404,120	18,010
Above Poverty Level	243,910	237,430	6,480	328,290	321,840	6,450
Below Poverty Level	46,130	43,700	2,430	93,840	82,280	11,560
RELATED CHILDREN UNDER 18 BELOW POVERTY LEVEL	78,620	55,760	22,860	88,460	46,630	41,830
Children Under 6 Years of Age	28,620	20,060	8,560	33,290	19,220	14,070
with Male Family Head	12,540	10,140	2,400	14,900	7,630	7,270
with Female Family Head	16,080	9,920	6,160	18,390	11,590	6,800
Children 6-17 Years of Age	50,000	35,700	14,300	55,170	27,410	27,760
with Male Family Head	21,860	17,870	3,990	12,370	5,370	7,000
with Female Family Head	28,140	17,830	10,310	42,800	22,040	20,760



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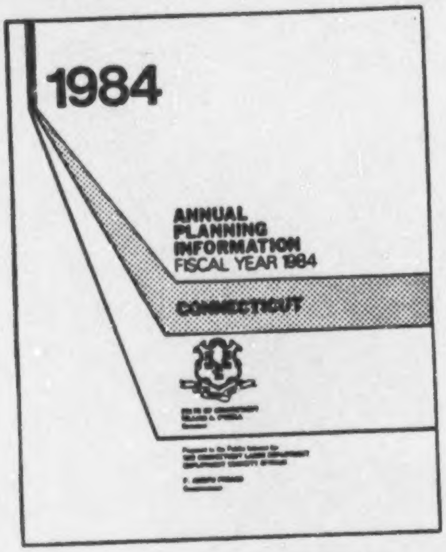
Barriers to Employment of Economically Disadvantaged

Barriers to Employment of the Economically Disadvantaged

Economically disadvantaged persons are those who are likely to be impeded by a lack of adequate education or suitable skills for many available jobs. In addition, many of these people do not have sufficient experience that would enable them to get hired.

Language barriers could also pose as a problem in holding a job because persons without a complete knowledge of English could have difficulty understanding verbal and written instructions. Many economically disadvantaged persons have health problems which also limit their employment possibilities. A wide range of personal problems may also confront these people. An obstacle for working mothers is the lack of adequate day care facilities for young children.

As a result of these obstacles, economically disadvantaged persons who are employed are most likely to be working in jobs which require little education and few work skills. Consequently, they are the first to be affected by cutbacks during adverse economic conditions and they are also the last people to be rehired when economic activity picks up.



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Methodology

Methodology

This section is devoted to clarifying the specific methodologies which were employed in tabulating projections for the API report. There were five major sources for the projections: 1) the Lawrence Berkeley Laboratory (LBL) Labor Market Projection Model; 2) the Occupational Employment Statistics projections; 3) the ESARS program; 4) the Labor Market Information (LMI) Guidelines - Need for Manpower Services; 5) and the Department of Education high school enrollment figures. What follows is a brief summary of the methodology used in each of the five sources.

1. LBL Methodology

The increased decentralization of federal programs and the growing need for specificity in tracing demographic trends resulted in 1976 in the development of the Labor Market Projections Model (LMPM) by the Lawrence Berkeley Laboratory. The LMPM program is designed to provide a comprehensive modeling system for labor market analysts and, to that end, integrates data from several sources for a variety of geographic areas (states, SMSA's and prime sponsors). The decennial Census from 1970 provided the benchmark data, which was revised through the implementation of updated population figures based on results of the 1980 census, in order to compile statistics regarding population, labor force and unemployment. These three types of demographic information contribute to proposals for legislation, and the estimation of local area economic conditions. Therefore the LBL projections constitute the core of the major tabulations contained in this API. The specific methodologies used in projecting population, labor force and unemployment trends are detailed below.

The population projections are calculated using a so-called refined cohort component method. This involves projecting the populations of five-year age cohorts by estimating the births, deaths, and migration. The cohorts are also specific by sex and race. The advantage of the cohort-component method is that each race, sex, and age cohort is uniquely considered in terms of the demographic factors giving rise to population change. The projections to 1983 are done in two steps, since the use of five-year age cohorts requires projection for five-year intervals.

The data on which the projections are based are the 1970 Census - the most current source of uniform, detailed, local data. Although there is considerable age detail available in the Census, the population of each area is grouped into five-year age cohorts to be consistent with the five-year age cohorts for which fertility, survival, and migration rates are defined.

In essence, the two-step method projects the 1970 population to 1975 by estimating births, deaths, and migration by race, sex, and age. This 1975 population is then projected to 1980, again by estimating births, deaths, and migration by race, sex, and age. To obtain 1983 population projections by race, sex and age, the 1980 distribution is controlled to a 1983 total. This assumes no change in the race-sex-age distribution from 1980 to 1983.

The labor force projections are based on the 1970 civilian population and the 1970 civilian labor force of the area. These are used to compute 1970 labor force participation rates by race, sex, and age from which 1983 participation rates are estimated using the annual national changes in the rates for the cohorts since 1970.

The estimated 1983 participation rates are applied to the 1983 projections of civilian population to yield the civilian labor force. These 1983 projected labor force figures are then forced to add up to a control total provided by the labor market analyst.

To compute 1970 civilian labor force participation rate, 1970 civilian population and 1970 civilian labor force are needed for the cohorts. The civilian population by race, sex and age in 1970 is available from the population projections. From the 1970 Fourth Count Census, total labor force figures for the cohorts are obtained. Since these labor force figures include the military, estimates of the military in 1970 that were used in the population projections are subtracted from the labor force figures to obtain civilian labor force for the cohorts.

The 1970 Census civilian labor force participation rates are multiplied by an adjustment factor which itself is the product of two ratios. Since the 1970 participation rate for the cohorts are based upon Census data, they are adjusted so as to be compatible with data from the Current Population Survey (CPS), a widely used and more accurate source of labor force data than the Census.

The first ratio is, for each cohort, the March-April average 1970 CPS national participation rate relative to the 1970 Census national rate (the 1970 Census survey was conducted around April 1). The second ratio is, again for each cohort, the annual average 1970 CPS national participation rate relative to the March-April average 1970 CPS national rate. Thus, the product of the two ratios, in effect, adjusts the 1970 Census rates to 1970 "annual" CPS rates.

To update 1970 civilian labor force participation rates to 1983 levels, these rates are multiplied by the national changes in the rates from 1970 to 1983. For each cohort, the annual changes from 1970 to 1979 in the labor force participation rates were plotted as a function of time. In general, the plots showed definite linear trends. The 1983 labor force participation rates for the cohorts were consequently estimated by forecasting from the regression line computed for the 1970-1979 period. The 1983 estimated rates are then divided by the 1970 rates yielding the change in civilian labor force participation rates for each cohort from 1970 to 1983. Estimated 1983 civilian labor force participation rates, are then obtained by multiplying the adjusted 1970 rates, by the national changes. The estimated 1983 civilian labor force for each cohort is merely the product of the estimated 1983 civilian labor force participation rates and the 1983 civilian population.

For each area, a 1983 total civilian labor force count or a participation rate has been supplied by the labor market analyst. The state-supplied civilian labor force serves as a control total. The civilian labor force for each cohort is expressed as a percent of the sum of the civilian labor force for all the cohorts. Multiplying these percents by the state supplied total yields the projected 1983 civilian labor force by race, sex, and age. The projected 1983 civilian labor force participation rates for the cohorts, are obtained by dividing civilian labor force by civilian population.

The unemployment projections are based on three factors - 1) the 1970 unemployment for the cohorts in the area, 2) the national changes in the unemployment rates for the cohorts from 1970 to the target-year 1983, and 3) the target-year labor force already calculated.

Since the 1970 Fourth Count Census contains only unemployment by race and sex, the unemployment projections are done in two stages. The first stage projects unemployment by race and sex. The second stage projects unemployment by age for each race-sex cohort. This second stage is done only for those areas covered in the 1970 Sixth Count Census.

The first step in the unemployment projections is to compute the 1970 unemployment rates. These are obtained by dividing the 1970 unemployment for each race-sex cohort by the 1970 labor force for each race-sex cohort. The 1970 race-sex labor force totals are merely the sums of 1970 labor force for the age groups within each race-sex group.

The 1970 unemployment rates, are then multiplied by factors reflecting national changes in the unemployment rates of the cohorts over time. To eliminate much of the cyclicality of unemployment rates, each cohort's 1970 rate is divided by the area's total 1970 rate resulting in a "standardized" unemployment rate for each cohort. The standardized 1970 rate for each cohort is multiplied by the ratio of the 1979 standardized national rate for the cohort to the 1970 standardized national rate for the cohort. This ratio is then used to adjust the 1970 standardized unemployment rate to an estimated target-year standardized rate. Upon multiplying the target-year standardized rate for each cohort by the 1983 total unemployment rate of the area provided by the SESA analyst, estimated 1983 unemployment rates for the cohorts are obtained. The 1983 estimated unemployment for each race-sex cohort is easily calculated by multiplying each cohort's 1983 unemployment rate by its 1983 civilian labor force.

By multiplying the 1983 area unemployment rate by 1983 area civilian labor force, both of which are provided by the labor market analyst, a 1983 unemployment figure is calculated. This figure is used as a control total for the 1983 estimated unemployment figures for the cohorts. The unemployment for each cohort is expressed as the percent of the sum of the unemployment figures of all the cohorts. Multiplying these percents by the unemployment control total yields the 1983 projected unemployment for the race-sex cohorts. Projected 1983 unemployment rates by race and sex are obtained by dividing the unemployment figures by the civilian labor force.

2. ESARS Program Methodology

ESARS tabulations were used in compiling statistics concerning job applicants. This program records the activity of the Employment Service according to geoarea (state, SMSA, local ES office) in order to identify the demography of the applicant population. It contains information on applicants registered for work (via the Applicant Data System), job orders received from employers through area Job Banks and related activities of the ES agencies. The data is presented by: 1) applicant characteristics by age, sex, highest grade completed, ethnic group, poverty status, Spanish surname, welfare registration and so forth; 2) job order characteristics by occupation code, duration of job, wage, special class of opening, number of positions, industrial code; 3) activities by placement, counseling, training enrollment, testing, job development, WIN job entry and other services.

ESARS data provide an improved basis for planning and evaluating employment service operations, enabling CETA planners in particular to express objectives and to direct services. The data is tabulated on a monthly basis, with the tabulations being cumulative from the beginning of the fiscal year.

3. Methodology for Need for Employment-Related Services Projections

Although data on average unemployment is helpful in planning estimates, it may be misleading since it fails to represent those individuals who actually experience a period of unemployment during the year or those who may be in need of particular employment and training services. Because of this, the U. S. Department of Labor Employment and Training Administration devised a set of guidelines to be used by labor market analysts in calculating the number of different persons who will experience unemployment or those who will be employed only part-time for economic reasons during the fiscal year.

The technique for estimating the total number of different individuals experiencing some period of unemployment during fiscal year 1983 relies on an observed, strong, indirect relationship between the total number of unemployed and the average number of unemployed in relation to the size of the area unemployment rate. Specific calculations break down this unemployment figure by race and sex categories (according to white/nonwhite only). A subcategory of persons unemployed during the fiscal year concerns those individuals who will experience unemployment longer than 15 weeks duration and are, therefore, classified as "long-term unemployed." A similar indirect relationship was applied to this sub-sector in tabulating the number of persons according to race and sex.

The calculations for arriving at the number of persons employed part-time for economic reasons were compiled on the basis of percentage of total employment determined in 1976. Labor market analysts first developed the year's employment estimates and then applied the specific proportions according to race/sex categories.

4. High School Attrition Rate Methodology

The attrition rates among high school students were determined to be of importance since they relate to both expansion of the labor force and accelerated unemployment among youth. In compiling statistics for the attrition tabulations, the Office of Research and Information utilized figures supplied by the Connecticut Department of Education detailing secondary school enrollees and students entering twelfth grade since 1973. The attrition rates were compiled on the basis of these figures in two steps:

(1) The number of students entering twelfth grade was subtracted from the number of students who entered ninth grade four years previously to find the number of those who had dropped out.

(2) The number who had dropped out was divided by the original ninth grade tally to find the attrition rate.

These steps were repeated for the projection years, 1981 through 1983 using figures arrived at on the basis of multiplying present class sizes by persistent historical factors.

Demand: The Methodology

The occupational projections for fiscal years 1982, 1983 and 1987 which are presented in this report were prepared with the following economic assumptions:

1. The national economy will continue to slow down during the first half of 1982. Economic growth is expected to return during the second half of 1982 and show continued improvement through 1983. Moderate economic conditions will exist in 1987.
2. The Connecticut economy is expected to perform somewhat better than the national economy. However, national trends will determine how quickly Connecticut's economy recovers during the second half of 1982.
3. The occupational structure of the state's industries will remain unchanged during the projection period.

Projecting Industry Employment

Projecting industry wage and salary and self-employment was accomplished in two stages. Projections to 1987 were made assuming moderate economic conditions and structurial changes expected to occur during the period. The short range projections, years 1982 and 1983, were made by assessing currently emerging employment trends and levels by industrial sector and the short range economic assumptions.

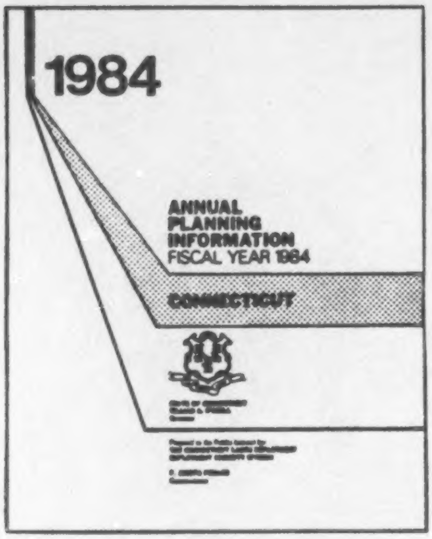
Projecting Occupational Employment

The occupational projections were prepared using the statewide industry-occupation employment matrix, which covers 1904 occupations cross-classified by 454 industry sectors. The state base period industry-occupation matrix was developed from 1977-1979 Occupational Employment Statistics surveys conducted by the Connecticut Labor Department. The projected matrices for Connecticut and all Labor Market areas were developed by using the staffing patterns found in the 1977-1979 base matrix.

Annual Average Job Openings

The projected labor demand shown in the report is the sum of all job openings expected during the time periods covered by this study due to growth or decline in the number of jobs and the replacement of those who die or retire.

The replacement component of total labor demand is an estimate of the average number of workers who will be required each year during the projection period to replace workers who die, retire, become disabled or temporarily withdraw for personal reasons. These estimates are based on separation rates by age and sex derived from national mortality and working life tables, which were applied to the age and sex distribution of the state's labor force by occupation.



1984

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Glossary

- GLOSSARY -

BLS - Bureau of Labor Statistics: A federal agency responsible for the gathering, analysis, and publication of labor force data.

CES - Current Employment Statistics: A federal-state cooperative program designed to produce estimates of non-farm employment, hours and earnings on the national, state and local levels.

Civilian Labor Force: All persons classified as employed or unemployed and looking for paid employment.

Durable Goods: Products that are not consumed immediately after they are produced, but which gradually wear out as they render service over a long period of years.

ESARS - Employment Security Automated Reporting System: Automated data system which provides information on applicants and openings.

ETA - Employment and Training Administration: Agency responsible for the implementation of the provisions of the Comprehensive Employment and Training Act.

Employed Persons: Those who worked for pay any time during the week which included in twelfth day of the month or who worked unpaid for fifteen hours or more in a family operated business or those who had a job but did not work due to illness, bad weather, etc. (Definition used by the Bureau of Labor Statistics.)

Final Goods: End product for consumption by either business or consumers.

Insured Unemployment - UI: Unemployment during week for which waiting period credit or benefits are claimed under the regular compensation programs, supplemental extended programs, or the railroad unemployment insurance program.

Intermediate Goods: Goods produced for use as inputs into other products.

I-OM - Industry-Occupation Matrix: Part of the Occupational Employment Statistics Program. This is a set of tables in which employment data is cross classified by industry and occupation.

Job Bank: Computer assisted list of job openings on file with the Job Service.

Labor Market Area: A geographic area consisting of a central city (or cities) and the surrounding territory, within a reasonable commuting distance.

Labor Surplus Area: The designation of a high unemployment area as eligible for preference in bidding on federal procurement contracts.

Long-Term Unemployed: Persons who are unemployed fifteen consecutive weeks or more in one year.

Nondurable Goods: Physical commodities that either are consumed shortly after they are produced, or wear out in a relatively short time.

Not in the Labor Force: Persons who are not employed or looking for paid employment.

Participation Rate: The percentage of a population which is in the labor force.

Poverty Level: The annual income threshold below which families are considered to be living in poverty, as determined in accordance with criteria established by the Director of the Office of Management and Budget.

Prime Sponsor: A public or private corporate body eligible to operate a variety of federal manpower programs in a given locality emphasizing the local labor market scope for manpower planning.

Public Assistance: Federal, State or local government cash payments for which eligibility is determined by a need or income test.

SESA - State Employment Security Agency: State agencies responsible for unemployment insurance programs and the employment service.

SMSA - Standard Metropolitan Statistical Area: A city or group of cities of specified population which consititute the central city and the county or counties in which it is located.

Underemployment: Employment below actual or potential skill level, or employment at fewer hours per week than the employee wants to work.

Unemployed Persons: All those who did not work during the survey week, had looked for work within the last four weeks, and were available for work except for temporary illnesses.

Variable: A characteristic (such as income or schooling) which may vary from observation to observation.